Eroica®

SERVICE MANUAL

SYSTEM-70

TT-702DP
AM/FM STEREO TUNER

TA-705BR
HI-FI STEREO AMPLIFIER

TE-707SG
GRAPHIC EQUALIZER

TD-703DMS
STEREO DOUBLE CASSETTE DECK

TRM-718BR
REMOTE CONTROL BOX

CONTENTS

TT-702DP AM/FM STEREO TUNER

FRONT PANEL FEATURES 1
REAR PANEL FEATURES 3
SPECIFICATIONS 3
SCHEMATIC DIAGRAM (TT-702DP) 4
SCHEMATIC DIAGRAM (TT-703DPL) 5
SCHEMATIC DIAGRAM (TT-703DPS) 6
PCB LAYOUT (TT-702DP) 7
PCB LAYOUT (TT-703DPL) 8
PCB LAYOUT (TT-703DPS) 9
WIRING DIAGRAM (TT-702DP, TT-703DPL, TT-703DPS) 10
BLOCK DIAGRAM (TT-702DP) 11
BLOCK DIAGRAM (TT-703DPL, TT-703DPS) 12
EXPLODED VIEW 13
ELECTRICAL PARTS (TT-702DP) 14
MECHANICAL PARTS (TT-702DP) 17
ELECTRICAL PARTS (TT-703DPL) 18
ELECTRICAL PARTS (TT-703DPS) 21

TA-705BR HI-FI STEREO AMPLIFIER

FRONT PANEL FEATURES 24
REAR PANEL FEATURES 25
SPECIFICATIONS 25
SCHEMATIC DIAGRAM 26
PCB LAYOUT 27
WIRING DIAGRAM 28
BLOCK DIAGRAM 29
EXPLODED VIEW 30
ELECTRICAL PARTS 31
MECHANICAL PARTS 36

TE-707SG GRAPHIC EQUALIZER

FRONT PANEL FEATURES 38
REAR PANEL FEATURES 39
SPECIFICATIONS 39
SCHEMATIC DIAGRAM 40
PCB LAYOUT 41
WIRING DIAGRAM 42
BLOCK DIAGRAM 43
EXPLODED VIEW 44
ELECTRICAL PARTS 45
MECHANICAL PARTS 49

TD-703DMS STEREO DOUBLE CASSETTE DECK

FRONT PANEL FEATURES 50
REAR PANEL FEATURES 51
SPECIFICATIONS 51
SCHEMATIC DIAGRAM 52
PCB LAYOUT 53
WIRING DIAGRAM 54
BLOCK DIAGRAM 55
EXPLODED VIEW 56
ELECTRICAL PARTS 57
MECHANICAL PARTS 61

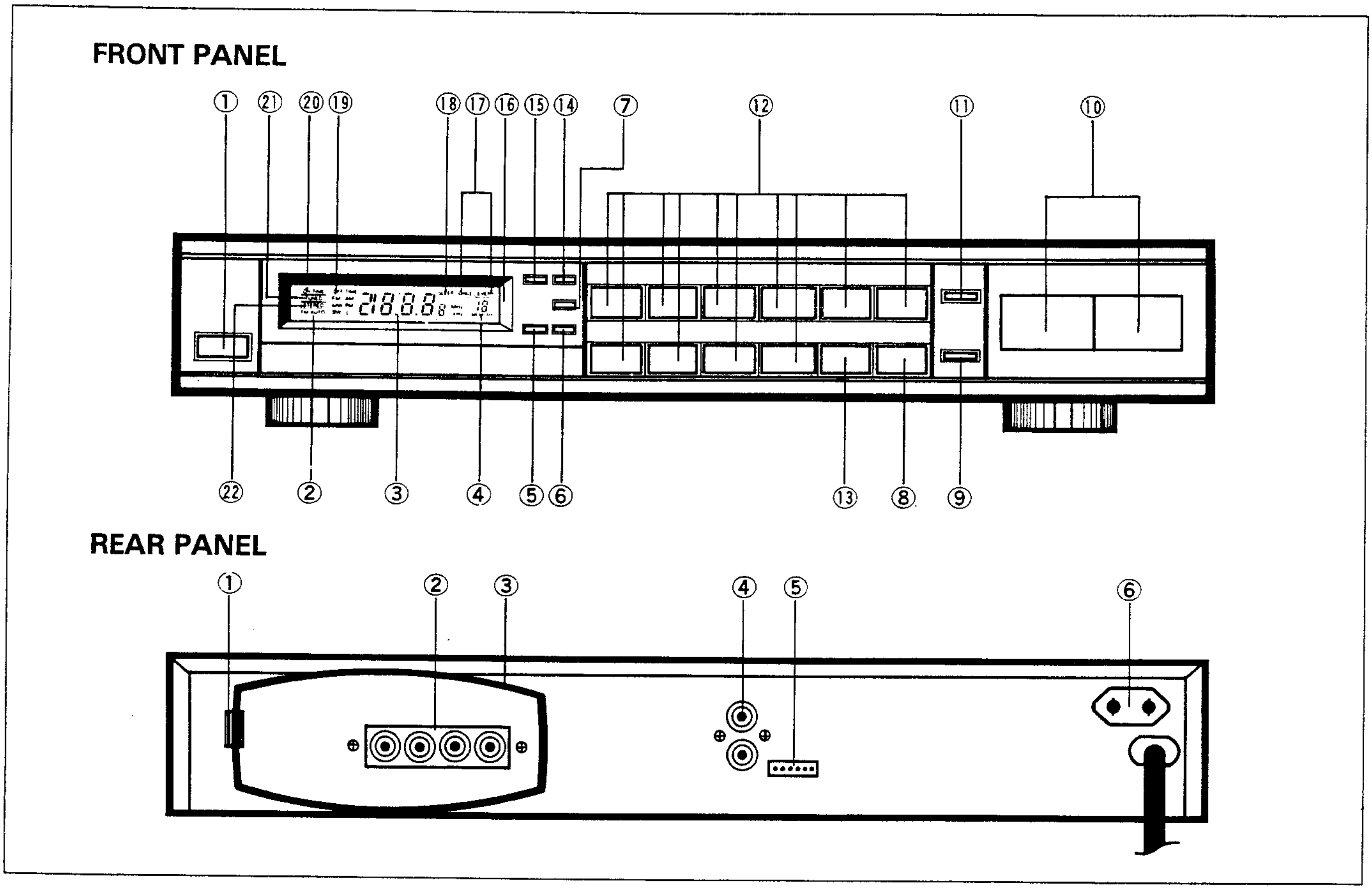
TRM-718BR REMOTE CONTROL BOX

FRONT PANEL FEATURES 63
SCHEMATIC DIAGRAM 65
PCB LAYOUT 66
ELECTRICAL PARTS 67
MECHANICAL PARTS 67

MODEL NO.

TT-702DP

AM/FM STEREO TUNER



FRONT PANEL FEATURES

1. **Power Button**
   Each press of the button commutes the change in order of Tuner ON and stand by stand by state is display clock only and reception is not available.
2. **FM Auto Indicator**
   Lights when the FM MODE button is placed in FM Auto mode during FM reception.
3. **Display**
   Displays current time, timer ON/OFF time, sleep time and radio frequency (normally displays current time).
4. **Memory Indicator**
   Flashes for 5 seconds when the MEMORY button is pressed.
5. **Timer Mode Selection Button (Timer SELECT)**
   Press this button to bring up the ONCE display when turning on the timer one time only, to bring up the EVERY display when turning on the timer at the same time every day, and to clear the display when not using the timer.
6. **Timer Set Button**
   Press when using the timer.
7. **Sleep Button**
   Functions as a 60-minute sleep timer when this button is pressed.
8. **Memory Scan Button (M-SCAN)**
   Press this button to start memory scanning, and to stop the scanning, press it again.

2 BAND (MW, FM) ONLY

9. **Band Selector Button**
   Use to select MW, FM reception. Each press of the button commutes the reception in order of FM, MW.
10. **Up/Down Buttons**
    Press to select stations, set the clock, set the timer, and adjust the sleep time.
    Each time the Up/Down button is pressed, the tuned frequency increases or decreases in the following manner:
    FM : 0.1 MHz steps
    MW: 9 KHz stpes

If either button is held down for more than half a second, the frequency will increase or decrease, until a frequency is tuned.
To exit auto tuning mode, press either button once more.

TT-703DPL

■ 3 BAND (MW, LW, FM) ONLY

9. **Band Selector Button**
Use to select MW, LW or FM reception. Each press of the button commutes the reception in order of FM, MW and LW.

10. **Up/Down Buttons**
Press to select stations, set the clock, set the timer, and adjust the sleep time.
Each time the Up/Down button is pressed, the tuned frequency increases or decreases in the following manner:
FM : 0.05 MHz steps
MW: 9 KHz steps
LW : 1 KHz steps

If either button is held down for more than half a second, the frequency will increase or decrease, until a frequency is tuned.
To exit auto tuning mode, press either button once more.

TT-703DPS

■ 3 BAND (MW, SW, FM) ONLY

9. **Band Selector Button**
Use to select MW, SW or FM reception. Each press of the button commutes the reception in order of FM, MW and SW.

10. **Up/Down Buttons**
Press to select stations, set the clock, set the timer, and adjust the sleep time.
Each time the Up/Down button is pressed, the tuned frequency increases or decreases in the following manner:
FM : 0.05 MHz steps
MW: 9 KHz steps
SW : 5 KHz steps

If either button is help down for more than half a second, the frequency will increase or decrease, until a frequency is tuned.
To exit auto tuning mode, press either button once more.

11. **FM Mode Button**
When this button is pressed and the FM Auto indicator lights, FM reception is either in stereo or in monaural according to the station being received is broadcasting in stereo or in monaural. When the FM Auto indicator is nor lighting, the reception is always monaural even if the broadcast is in stereo.
This button functions only when the BAND selector button is set for FM reception.

12. **Station Selector (Preset) Buttons**
Use these buttons to (1) preset a frequency or (2) recall a preset frequency.

13. **Memory Button**
Use this button to place frequencies in the memory for the preset STATION channels (1 to 10/ + 10). Press this button ("MEMORY" appears on the display) and then one of the preset STATION buttons to place the currently tuned frequency in that channel. If no preset STATION button is pressed, the "MEMORY" display goes out after about four seconds. The preset STATION can easily be changed by following the above procedure once again.

14. **Clock Set Button**
Press to set the current time.

15. **Display Button.**

16. **Station Preset Indicator**
Lights when the STATION selector preset button is pressed.

17. **Timer Mode Indicator**
Press the TIMER SELECT button to turn on the timer, selecting either ONCE Or EVERY. Also, press the TIMER SELECT button to clear the display when the timer is no longer used.

18. **Sleep Indicator**
Displayed when the sleep timer is on.

19. **OFF Time Indicator**
Indicates when the timer is to turn off.

20. **ON Time Indicator**
Indicates when the timer is to turn on.

21. **Tuned Indicator**
Lights when the optimum tuning point has been reached for the radio broadcast being listened to.

22. **Stereo Indicator**
Lights when an FM stereo broadcast is being received and the FM MODE button is in the FM-AUTO position.

REAR PANEL CONNECTIONS

1. **AM Antenna Holder**
   An AM loop antenna (included with this unit) is attached to the rear panel of the unit.
2. **Antenna Terminal**
   Connect the wires to this antenna terminal from AM loop antenna and FM T-antenna.
3. **Loop Antenna**
   Connect the wires from this antenna to the AM antenna terminals on the rear panel of this unit and then set the antenna to the angle with the best reception.
4. **Output Termianl**
   Connect the connector to amplifier.
5. **Remote Terminal**
   Connections to the Alplifier.
   Connect the connection cable extending from the rear panel of this unit to the amplifier's TUNER REMOTE TERMINAL.
6. **AC Outlet Terminal**
   This terminal is amplifier's main power source. Connect the amplifier's AC cord and this outlet operates with switched.

NOTE:

- Connecting the Outdoor FM Antenna
  If the FM STEREO indicator does not light or flashes on and off while a stereo FM broadcast is being received or if sound quality is poor, you should use an outdoor FM antenna in stead of the indoor antenna. Terminals is provided for 300 ohm aerial only.
- When interruption of power source memory keep up time is about 48 Hours, within 48 hours power source will supply, this unit maintenance the memory but re-adjust present time.

SPECIFICATIONS

Frequency Range	: FM 87.5 – 108.0 MHz (0.1 MHz step) MW 531 – 1602 KHz (9 KHz step)
Sensitivity	: FM 2.0 μV MW 500 μV
S/N Radio	: FM Mono : 65 dB : FM Stereo: 60 dB MW : 50 dB
FM Thd	: Mono : 0.3% Stereo: 0.5%
Frequency Response	: 30 Hz – 15 KHz
Selectivity	: 60 dB
Stereo Separation	: 40 dB (1 KHz)
Power Supply Voltage	: Safety Standard
Power Consumption	: 10 W
Demension	: 420(w) × 65(H) × 253(D)mm
Weight	: 2.7 Kg

.0 MHz

2 KHz

dB

dB

dB

z

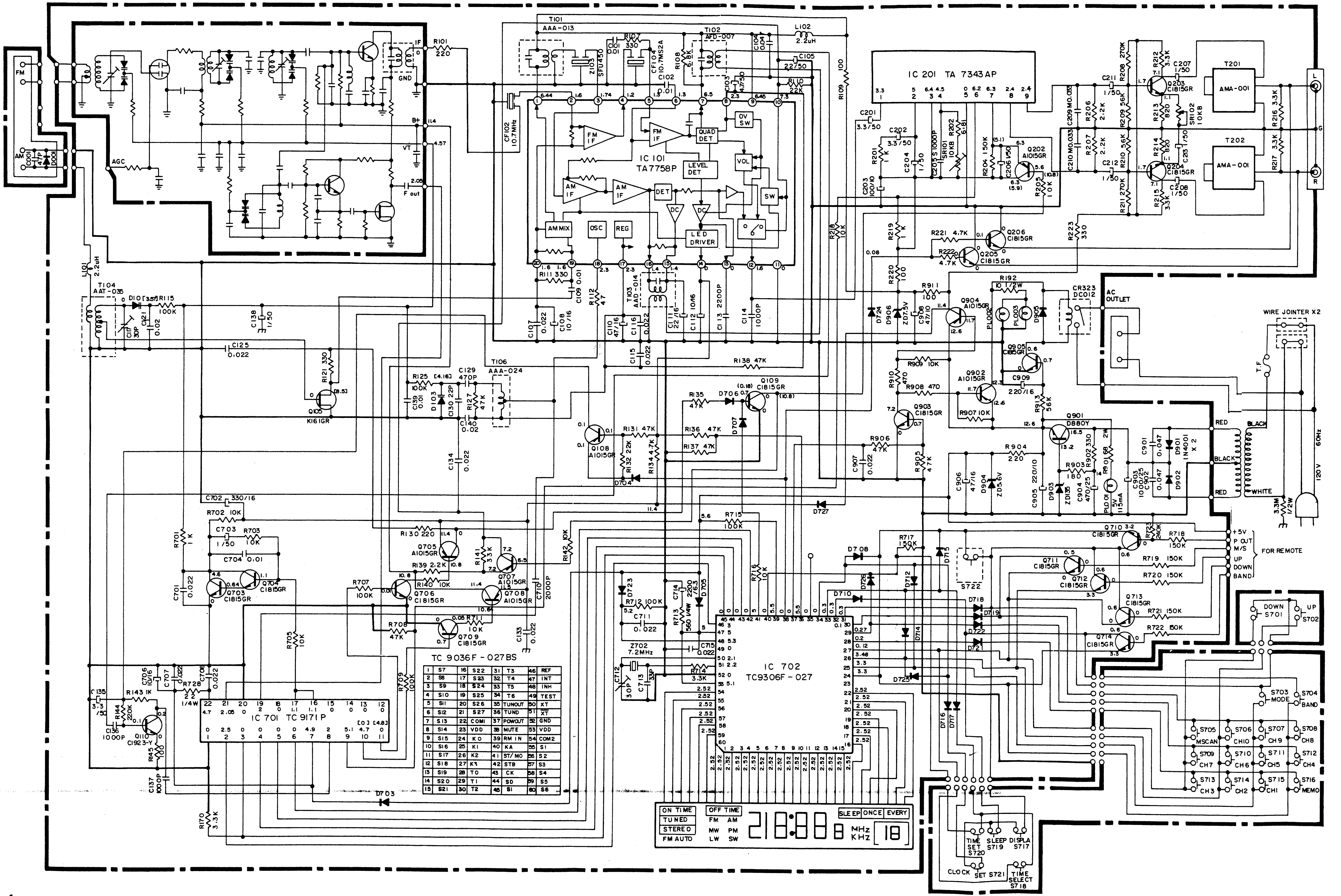
rd

×253(D)mm

MODEL NO. **TT-702DP**

SCHEMATIC DIAGRAM

FM 98MHz 60dB MONO
( ) FM 98MHz 60dB STEREO
[ ] AM 999KHz 100dB



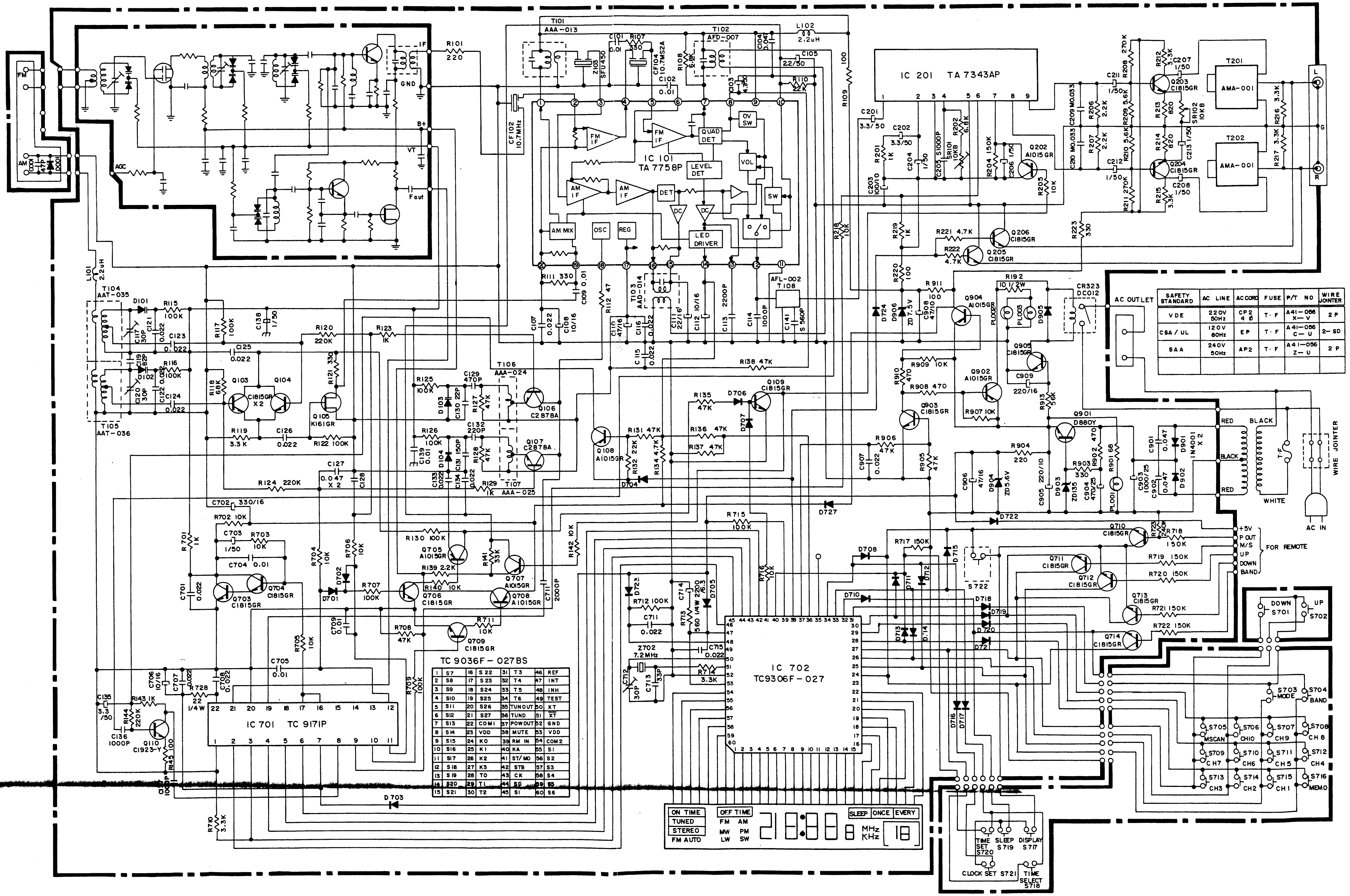
FM
AM
AGC
B+
VT
GND
IF
F out
R101 220
T101 AAA-013
T102 AFD-007
L102 2.2uH
CF102 10.7MHz
CF104 10.7MS2A
Z103 SFU450
IC 101 TA7758P
FM IF
AM IF
QUAD DET
OV SW
VOL
LEVEL DET
DET
DC
LED DRIVER
SW
AM MIX
OSC
REG
IC 201 TA 7343AP
T104 AAT-035
L101 2.2uH
T103 AAT-014
T106 AAA-024
Q105 K161GR
Q108 A1015GR
Q109 C1815GR
Q202 A1015GR
Q203 C1815GR
Q204 C1815GR
Q205 C1815GR
Q206 C1815GR
T201 AMA-001
T202 AMA-001
SR101 10KB
SR102 10KB
L
G
R
AC OUTLET
CR323 DC012
WIRE JOINTER X2
T.F
Q901 D880Y
Q902 A1015GR
Q903 C1815GR
Q904 A1015GR
Q905 C1815GR
D901 1N4001 X 2
RED
BLACK
WHITE
60Hz
120V
3.3M 1/2W
PL001 5V 115mA
PL002
PL003
+5V
P OUT
M/S
UP
DOWN
BAND
FOR REMOTE
Q703 C1815GR
Q704 C1815GR
Q705 A1015GR
Q706 C1815GR
Q707 A1015GR
Q708 A1015GR
Q709 C1815GR
Q710 C1815GR
Q711 C1815GR
Q712 C1815GR
Q713 C1815GR
Q714 C1815GR
Q110 C1923-Y
IC 701 TC 9171 P
IC 702 TC9306F-027
Z702 7.2MHz
S722
S701 DOWN
S702 UP
S703 MODE
S704 BAND
S705 MSCAN
S706 CH10
S707 CH9
S708 CH8
S709 CH7
S710 CH6
S711 CH5
S712 CH4
S713 CH3
S714 CH2
S715 CH1
S716 MEMO
S720 TIME SET
S719 SLEEP
S717 DISPLA
S721 CLOCK SET
S718 TIME SELECT
ON TIME
OFF TIME
SLEEP
ONCE
EVERY
TUNED
STEREO
FM AUTO
FM AM
MW PM
LW SW
MHz
KHz
18

TC 9036F - 027BS

1	S7	16	S22	31	T3	46	REF
2	S8	17	S23	32	T4	47	INT
3	S9	18	S24	33	T5	48	INH
4	S10	19	S25	34	T6	49	TEST
5	S11	20	S26	35	TUNOUT	50	XT
6	S12	21	S27	36	TUND	51	$\overline{XT}$
7	S13	22	COM1	37	POWOUT	52	GND
8	S14	23	VDD	38	MUTE	53	VDD
9	S15	24	KO	39	RM IN	54	COM2
10	S16	25	K1	40	KA	55	S1
11	S17	26	K2	41	ST/MO	56	S2
12	S18	27	K3	42	STB	57	S3
13	S19	28	T0	43	CK	58	S4
14	S20	29	T1	44	SD	59	S5
15	S21	30	T2	45	SI	60	S6

MODEL NO. **TT-703DPL**

SCHEMATIC DIAGRAM


FM
AM
AGC
IF
GND
B+
VT
Fout
R101 220
T101 AAA-013
T102 AFD-007
C101 0.01
R107 330
Z103 SFU450
CF104 10.7MS2A
C102 0.01
R108 6.8K
L102 2.2uH
C105 22/50
R110 22K
C103 4.7/50
CF102 10.7MHz
R109 100
IC 101 TA 7758P
FM IF
QUAD DET
OV SW
VOL
LEVEL DET
AM IF
DET
DC
SW
LED DRIVER
AM MIX
OSC
REG
R111 330
C109 0.01
R112 47
T103 AAD-014
C111 22/16
C112 10/16
C113 2200P
C114 1000P
T108 AFL-002
C141 S 560P
IC 201 TA 7343AP
C201 3.3/50
C202 3.3/50
C203 100/10
C204 1/50
C205 S1000P
SR101 10KB
R202 6.8K
R204 150K
C206 1/50
Q202 A1015GR
R205 10K
C211 1/50
R208 270K
R212 3.3K
C207 1/50
Q203 C1815GR
SR102 10KB
T201 AMA-001
T202 AMA-001
Q204 C1815GR
C208 1/50
R211 270K
R215 3.3K
R216 3.3K
R217 3.3K
C213 1/50
L
G
R
R218 10K
R219 1K
R220 100
R221 4.7K
R222 4.7K
Q206 C1815GR
Q205 C1815GR
R223 330
L101 2.2uH
T104 AAT-035
T105 AAT-036
D101
D102
R115 100K
R116 100K
R117 100K
C138 1/50
R120 220K
R123 1K
C125 0.022
R118 68K
Q103
Q104
C1815GR X 2
R121 330
Q105 K161GR
R119 3.3K
C126 0.022
R122 100K
R124 220K
C127 0.047 X 2
C128
T106 AAA-024
R125 100K
C129 470P
R127 47K
Q106 C2878A
R126 100K
C132 220P
R128 47K
Q107 C2878A
T107 AAA-025
R129 1K
Q108 A1015GR
R131 47K
R132 22K
R134 4.7K
D704
R135 47K
D706
D707
Q109 C1815GR
R136 47K
R137 47K
R138 47K
R911 100
Q904 A1015GR
R192 10 1/2W
PL003
D905
CR323 DC012
AC OUTLET
Q905 C1815GR
R909 10K
R908 470
Q902 A1015GR
C909 220/16
Q903 C1815GR
R907 10K
R913 56K
Q901 D880Y
R906 47K
R905 47K
C907 0.022
R904 220
R902 470
R903 330
R901 68
C906 47/16
D904 ZD5.6V
C905 220/10
D903 ZD135
C904 470/25
PL001
C903 1000/25
C901 0.047
C902 0.047
D901 1N4001 X 2
D902
RED
BLACK
WHITE
T.F
WIRE JOINTER
AC IN
D722
D727
C702 330/16
R702 10K
C703 1/50
R703 10K
C704 0.01
R701 1K
C701 0.022
Q703 C1815GR
Q704 C1815GR
R704 10K
D702
R706 10K
D701
R707 100K
R130 100K
Q705 A1015GR
R141 33K
R142 10K
R139 2.2K
R140 10K
Q707 A1015GR
Q706 C1815GR
Q708 A1015GR
C711 2000P
R715 100K
R708 47K
R711 10K
Q709 C1815GR
R705 10K
C709 0.01
C705 0.01
R709 100K
C706 10/16
C707 0.022
R728 22 1/4W
C708 0.022
C135 3.3/50
R144 220K
R143 1K
C136 1000P
Q110 C1923-Y
R145 100
C137
IC 701 TC 9171P
D703
R710 3.3K
D721
R712 100K
C714 220P
R713 560 1/4W
D705
C711 0.022
Z702 7.2MHz
C715 0.022
C712 30P
C713 33P
R714 3.3K
IC 702 TC9306F-027
R716 10K
D708
D710
R717 150K
D715
D711
D712
D713
D714
D716
D717
D718
D719
D720
S722
Q710 C1815GR
R723 240K
R718 150K
Q711 C1815GR
R719 150K
Q712 C1815GR
R720 150K
Q713 C1815GR
R721 150K
Q714 C1815GR
R722 150K
+5V
P OUT
M/S
UP
DOWN
BAND
FOR REMOTE
DOWN S701
UP S702
S703 MODE
S704 BAND
S705 MSCAN
S706 CH10
S707 CH9
S708 CH8
S709 CH7
S710 CH6
S711 CH5
S712 CH4
S713 CH3
S714 CH2
S715 CH1
S716 MEMO
TIME SET S720
SLEEP S719
DISPLAY S717
CLOCK SET S721
TIME SELECT S718
ON TIME
TUNED
STEREO
FM AUTO
OFF TIME
FM AM
MW PM
LW SW
SLEEP
ONCE
EVERY
MHz
KHz

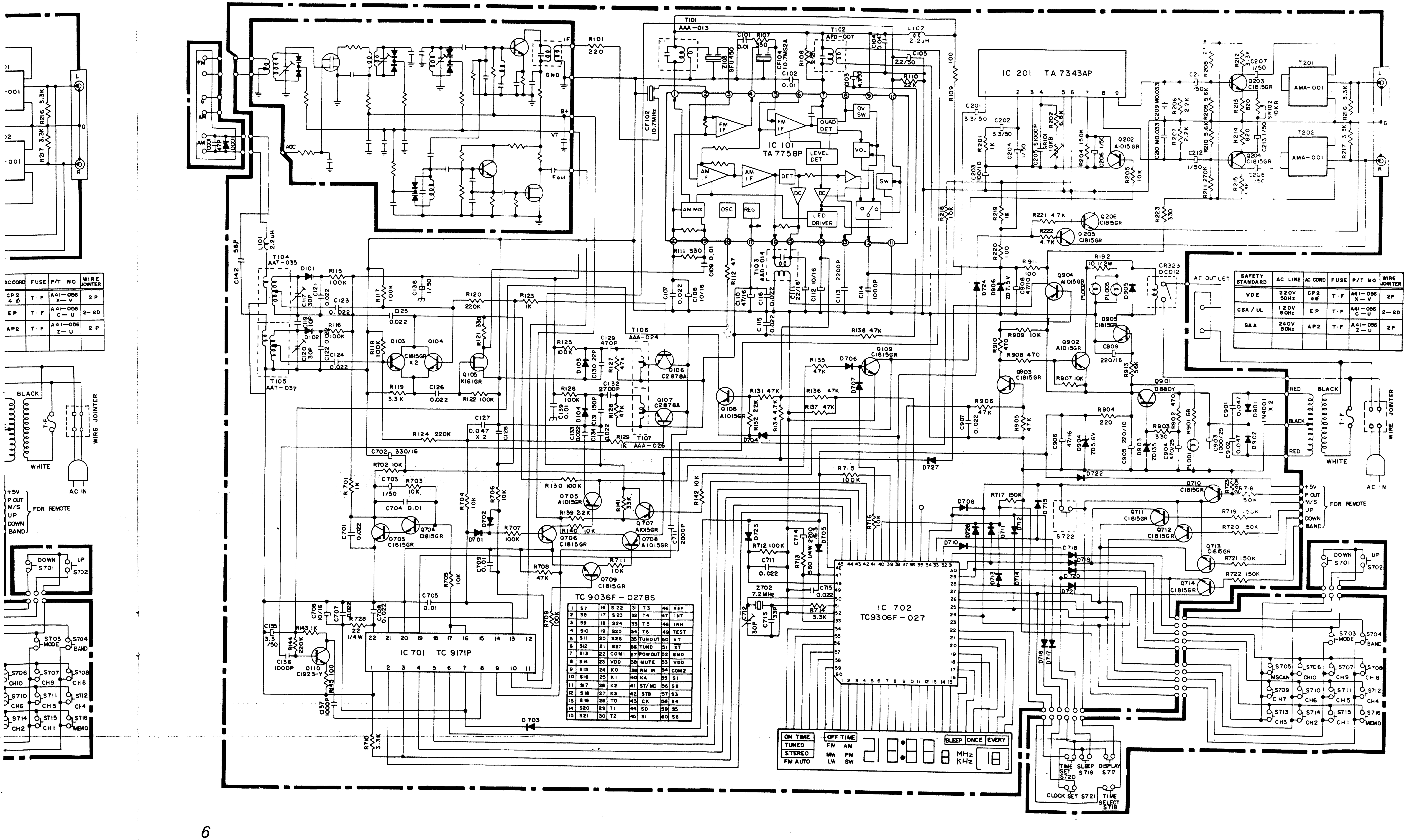
TC 9036F – 027BS

1	S7	16	S 22	31	T3	46	REF
2	S8	17	S 23	32	T4	47	INT
3	S9	18	S24	33	T5	48	INH
4	S10	19	S25	34	T6	49	TEST
5	S11	20	S26	35	TUNOUT	50	XT
6	S12	21	S27	36	TUND	51	$\overline{XT}$
7	S13	22	COM1	37	POWOUT	52	GND
8	S14	23	VDD	38	MUTE	53	VDD
9	S15	24	K0	39	RM IN	54	COM2
10	S16	25	K1	40	KA	55	S1
11	S17	26	K2	41	ST/MO	56	S2
12	S18	27	K3	42	STB	57	S3
13	S19	28	T0	43	CK	58	S4
14	S20	29	T1	44	SD	59	S5
15	S21	30	T2	45	S1	60	S6

SAFETY STANDARD	AC LINE	AC CORD	FUSE	P/T NO	WIRE JOINTER
VDE	220V 50Hz	CP2 4 Ø	T · F	A41–056 X–V	2 P
CSA / UL	120V 60Hz	EP	T · F	A41–056 C–U	2–SD
SAA	240V 50Hz	AP2	T · F	A41–056 Z–U	2 P

MODEL NO. **TT-703DPS**

SCHEMATIC DIAGRAM


T101
AAA-013
T1C2
AFD-007
L1C2
2.2uH
IF
GND
B+
VT
AGC
Fout
FM
AM
R101
220
C101
0.01
R107
330
Z105
SFU450
CF104
10.7MS2A
C102
0.01
R108
6.8K
C104
0.047
C105
22/50
R110
22
R109
100
CF102
10.7MHz
IC 101
TA7758P
FM IF
QUAD DET
OV SW
LEVEL DET
VOL
AM F
AM IF
DET
DC
SW
AM MIX
OSC
REG
LED DRIVER
R111 330
C109 0.01
R112 47
T103
AID-014
C107 0.022
C108 10/16
C110 47/16
C116 0.022
C115 0.022
C111 22/16
C112 10/16
C113 2200P
C114 1000P
IC 201 TA7343AP
C201
3.3/50
C202
3.3/50
R201
1K
C204
1/50
C205 1000P
SR101 10KB
R202 6.8K
R204 150K
C206 1/50
Q202
A1015GR
R205
10K
C203
100/10
T201
AMA-001
T202
AMA-001
Q203
C1815GR
Q204
C1815GR
R212 3.3K
C207 1/50
R213 820
SR102 10KB
R214 820
C213 1/50
R215 1.5K
C208 1/50
C212 1/50
R211 270K
R210 5.6K
R209 5.6K
R206 2.2K
R207 2.2K
C209 M0.033
C210 M0.033
R216 3.3K
R217 3.3K
R208 27K
R218 10K
R219 1K
R220 100
R221 4.7K
R222 4.7K
Q205 C1815GR
Q206 C1815GR
R223 330
L
G
R
C142
56P
L101
2.2uH
T104
AAT-035
D101
R115
100K
C117 30P
C121 0.022
C123 0.022
R117 100K
C138 1/50
C125 0.022
R120 220K
R123 1K
C119 10P
D102
R116 100K
C120 30P
C122 0.022
C124 0.022
R118 100K
Q103
C1815GR X 2
Q104
R121 330
Q105
K161GR
T105
AAT-037
R119 3.3K
C126 0.022
R122 100K
R124 220K
C127
0.047 X 2
C128
C129 470P
T106
AAA-024
R125 100K
D103
C130 22P
R127 47K
Q106
C2878A
C132
2700P
R126 100K
C139 0.01
D104
C131 150P
R128 47K
Q107
C2878A
C133 0.022
C134 0.022
R129 1K
T107 AAA-026
R138 47K
Q109
C1815GR
R135 47K
D706
D707
Q108
A1015GR
R131 47K
R132 22K
R134 4.7K
R136 47K
R137 47K
D704
C702 330/16
R702 10K
C703 1/50
R703 10K
C704 0.01
R701 1K
C701 0.022
Q703 C1815GR
Q704 C1815GR
R704 10K
R706 10K
D702
D701
R707 100K
Q706 C1815GR
Q705 A1015GR
R130 100K
R139 2.2K
R140 10K
R141 33K
Q707 A1015GR
Q708 A1015GR
C711 2000P
R142 10K
C709 0.01
R708 47K
R711 10K
Q709 C1815GR
R705 10K
C705 0.01
R709 100K
C706 10/16
C707
C708 0.022
R728 22 1/4W
C135 3.3/50
R143 1K
R144 220K
C136 1000P
Q110 C1923-Y
R145 100
C137 1000P
IC 701 TC 9171P
D703
R710 3.3K
D727
R715 100K
D708
D723
R712 100K
C711 0.022
C714 2200
R713 560 1/4W
D705
R716 10K
Z702 7.2MHz
C712 30P
C713 33P
C715 0.022
R714 3.3K
IC 702
TC9306F-027
R911 100
R192 10 1/2W
CR323 DC012
D724
D906 ZD 7.5V
C908 47/10
Q904 A1015GR
PL002
PL003
D905
Q905 C1815GR
C909 220/16
R909 10K
R910 470
R908 470
Q902 A1015GR
Q903 C1815GR
R907 10K
R913 56K
Q901 D880Y
R906 47K
C907 0.022
R905 47K
R904 220
C906 47/16
D904 ZD5.6V
C905 220/10
D903 ZD135
C904 470/25
R903 330
R902 470
R901 68
PL001
C903 1000/25
C902 0.047
C901 0.047
D901 IN4001 X 2
D902
D722
AC OUTLET
RED
BLACK
WHITE
T.F
WIRE JOINTER
AC IN
Q710 C1815GR
R723 240K
R718 150K
R717 150K
D715
S722
Q711 C1815GR
R719 150K
Q712 C1815GR
R720 150K
Q713 C1815GR
R721 150K
Q714 C1815GR
R722 150K
D709
D710
D711
D712
D713
D714
D716
D717
D718
D719
D720
D721
+5V
P OUT
M/S
UP
DOWN
BAND
FOR REMOTE
DOWN S701
UP S702
S703 MODE
S704 BAND
S705 MSCAN
S706 CH10
S707 CH9
S708 CH8
S709 CH7
S710 CH6
S711 CH5
S712 CH4
S713 CH3
S714 CH2
S715 CH1
S716 MEMO
ON TIME
OFF TIME
TUNED
STEREO
FM AUTO
FM AM
MW PM
LW SW
SLEEP
ONCE
EVERY
MHz
KHz
TIME SET S720
SLEEP S719
DISPLAY S717
CLOCK SET S721
TIME SELECT S718

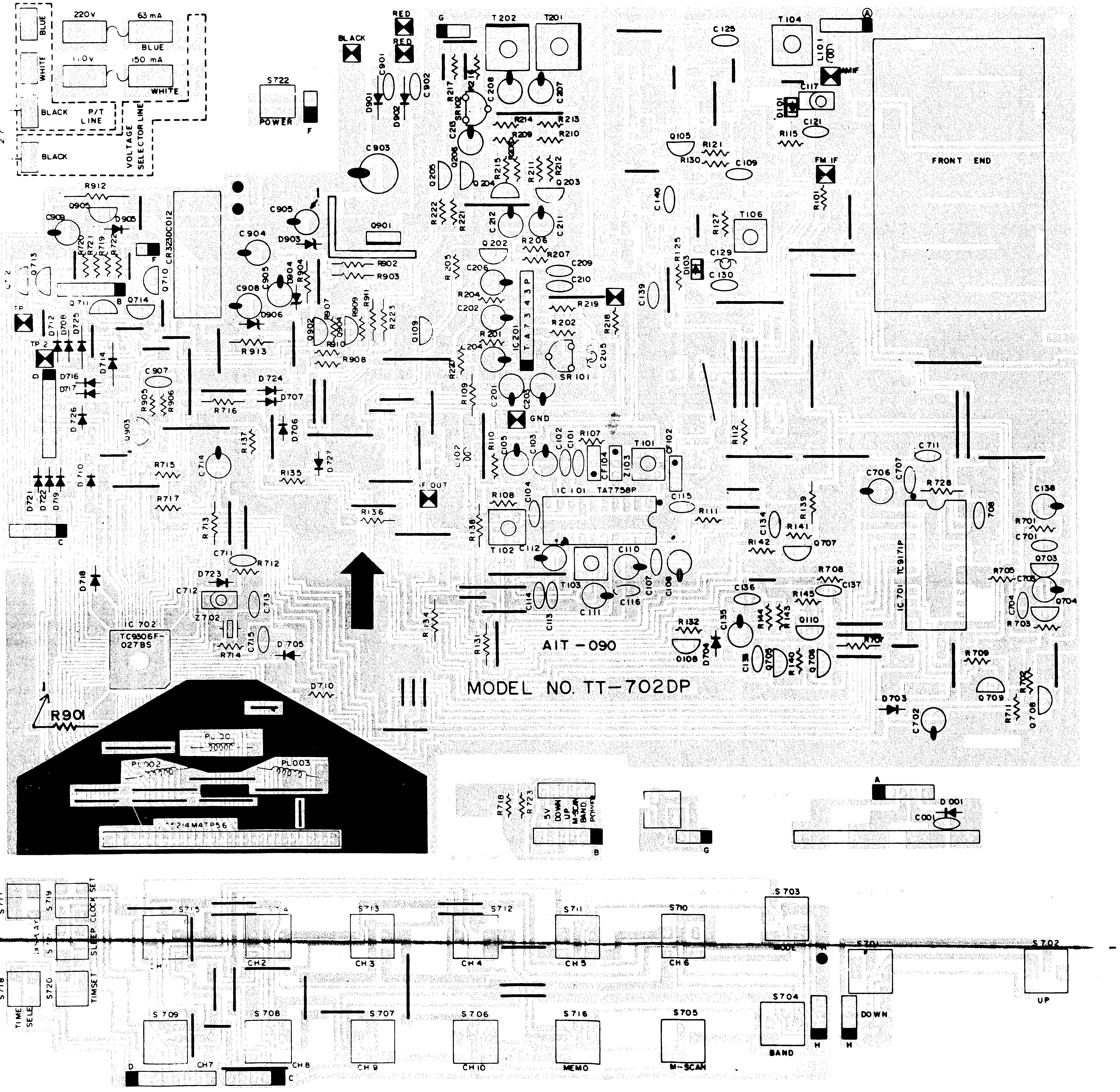
TC 9036F – 027BS

1	S7	16	S 22	31	T3	46	REF
2	S8	17	S 23	32	T4	47	INT
3	S9	18	S24	33	T5	48	INH
4	S10	19	S25	34	T6	49	TEST
5	S11	20	S26	35	TUNOUT	50	XT
6	S12	21	S27	36	TUND	51	$\overline{XT}$
7	S13	22	COM1	37	POWOUT	52	GND
8	S14	23	VDD	38	MUTE	53	VDD
9	S15	24	K0	39	RM IN	54	COM2
10	S16	25	K1	40	KA	55	S1
11	S17	26	K2	41	ST/MO	56	S2
12	S18	27	K3	42	STB	57	S3
13	S19	28	T0	43	CK	58	S4
14	S20	29	T1	44	SD	59	S5
15	S21	30	T2	45	S1	60	S6

SAFETY STANDARD	AC LINE	AC CORD	FUSE	P/T NO	WIRE JOINTER
VDE	220V 50Hz	CP2 40	T · F	A41–056 X – V	2P
CSA / UL	120V 60Hz	EP	T · F	A41–056 C – U	2–SD
SAA	240V 50Hz	AP2	T · F	A41–056 Z – U	2P

MODEL NO. **TT-702DP**

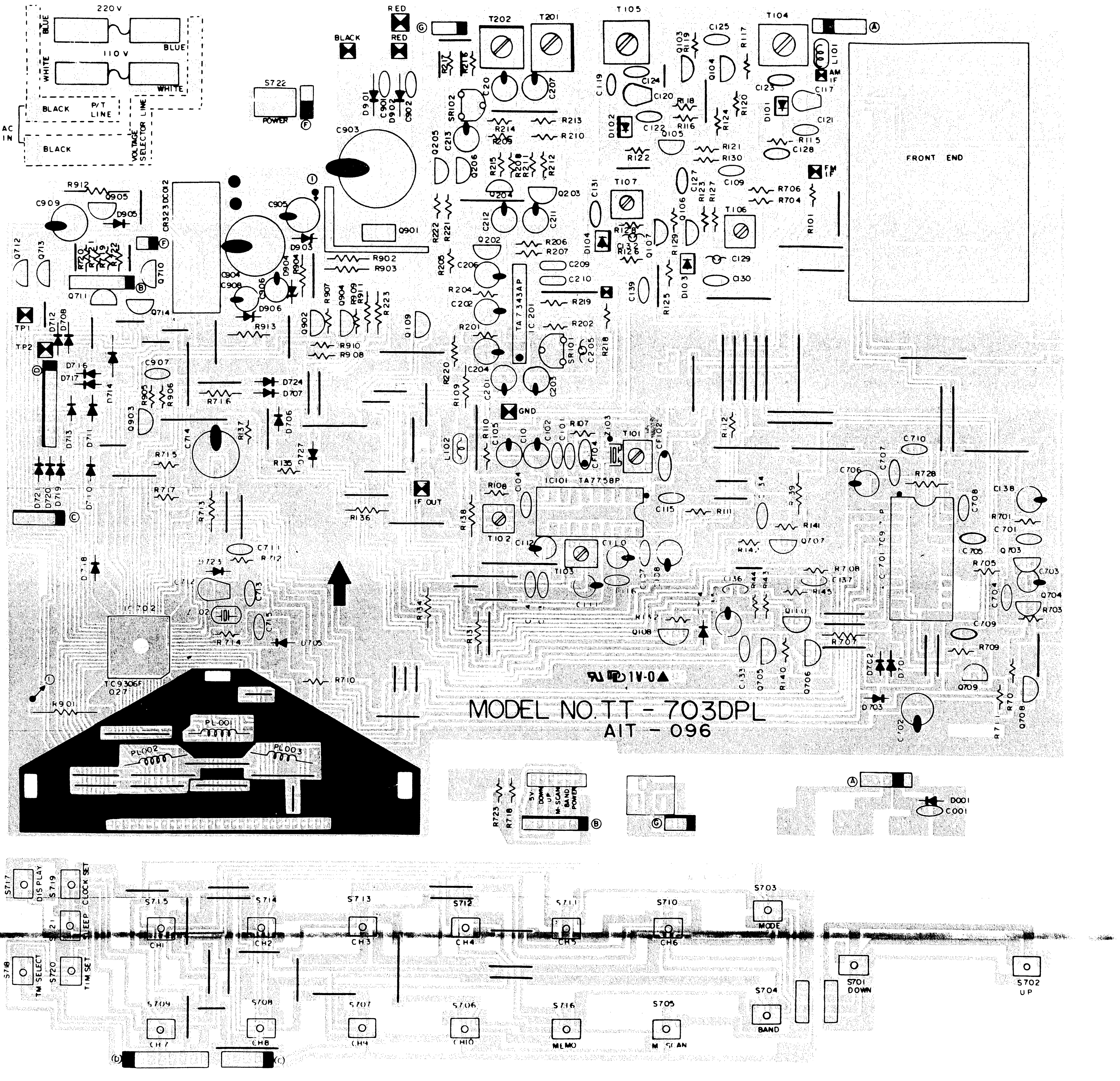
PCB LAYOUT



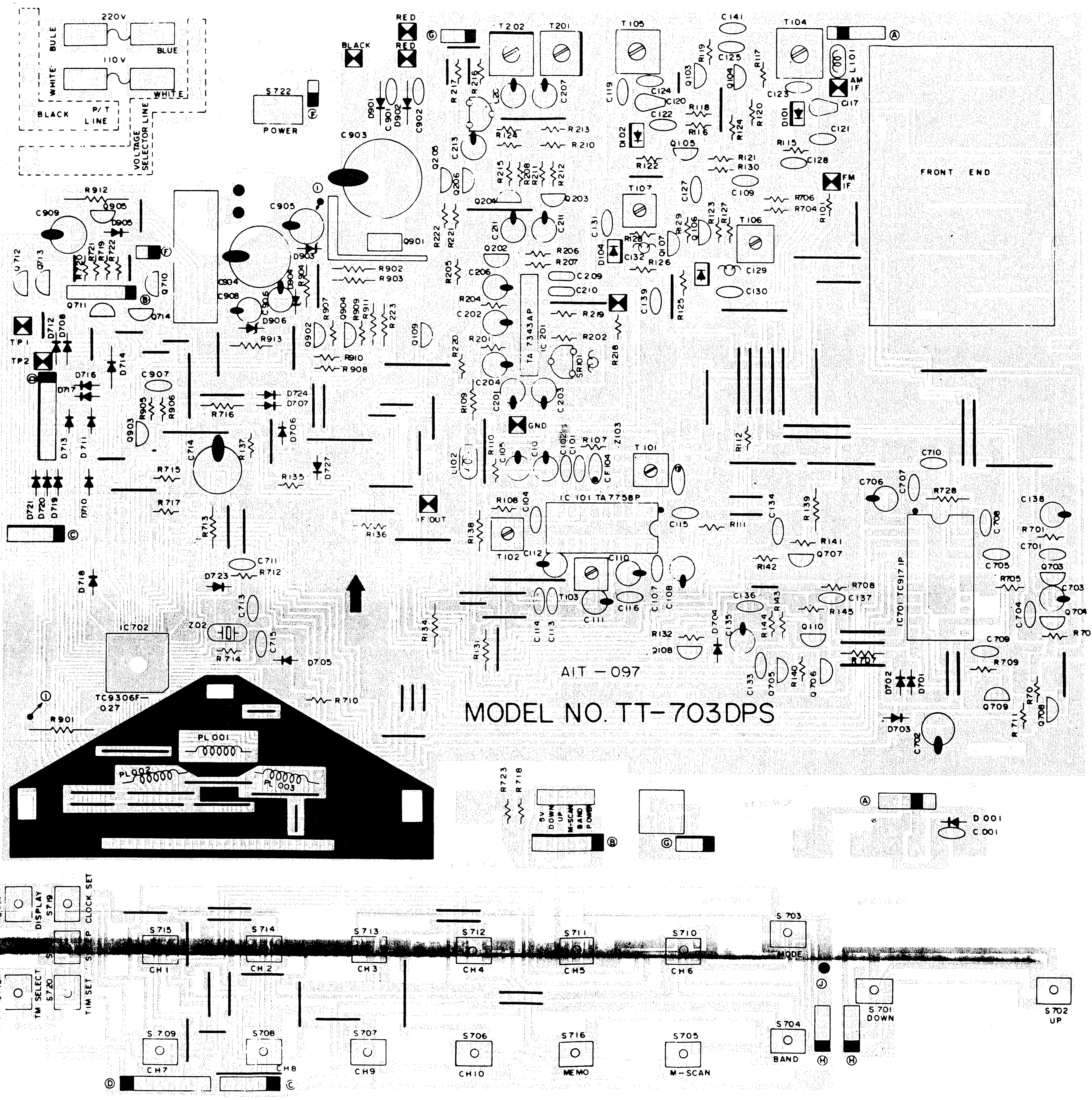
BLUE
WHITE
BLACK
220V
63 mA
110V
150 mA
P/T LINE
VOLTAGE SELECTOR LINE
S722
POWER
F
BLACK
RED
G
T202
T201
C125
T104
A
L101
AM IF
FM IF
FRONT END
C901
C902
D901
D902
C903
R217
R216
SR102
C208
C207
R214
R213
R209
R210
Q206
Q205
Q204
R215
R211
R212
Q203
R222
R221
C212
C211
Q202
R206
R207
C206
C209
C210
R205
R204
C202
IC201 TA7343P
R219
R202
R218
R201
R203
SR101
C205
C201
C203
GND
Q105
R121
R130
C109
D101
C117
C121
R115
R101
C140
R127
T106
R125
D103
C129
C130
C139
R912
Q905
C908
D905
R720
R721
R719
R722
Q713
Q710
CR323DC012
C905
C904
D903
Q901
R902
R903
C908
C905
D904
R904
D906
R907
R909
R911
R223
Q109
Q902
Q904
R910
R908
R913
Q711
Q714
D712
D708
D725
TP
TP 2
D714
D716
D717
D726
C907
R905
R906
D724
D707
R716
D706
Q903
R137
D727
D710
R715
C714
R135
R717
D721
D722
D719
C
R713
C711
R712
D723
C712
C713
Z702
C715
R714
D705
D710
D718
IC702
TC9306F-027BS
R901
PLD01
PLD02
PLD03
TC9214M4TP56
R136
IF OUT
L107
R109
R110
C105
C103
C102
C101
R107
CF104
Z103
T101
CF102
R108
C104
IC101 TA7758P
C115
R111
R138
T102
C112
C110
T103
C107
C108
C114
C113
C111
C116
R134
R131
AIT-090
MODEL NO. TT-702DP
R112
C711
C707
C706
R728
C138
Q708
R701
C701
Q703
R705
C703
Q704
C704
R703
IC701 TC9171P
R139
C134
R141
Q707
R142
R708
C137
C136
R145
R144
R143
Q110
R132
C135
Q108
D704
C133
Q705
R140
Q706
R707
R709
Q709
R702
R711
Q708
D703
C702
R718
R723
5V
DOWN
UP
M-SCAN
BAND
POWER
B
G
D001
C001
S717
S719
S718
S720
TIME SELE
TIMSET
CLOCK SET
SLEEP
S715
S714
S713
S712
S711
S710
S703
MODE
S701
S702
UP
CH2
CH3
CH4
CH5
CH6
S709
S708
S707
S706
S716
S705
S704
BAND
DOWN
H
CH7
CH8
CH9
CH10
MEMO
M-SCAN
D
C

MODEL NO. **TT-703DPL**

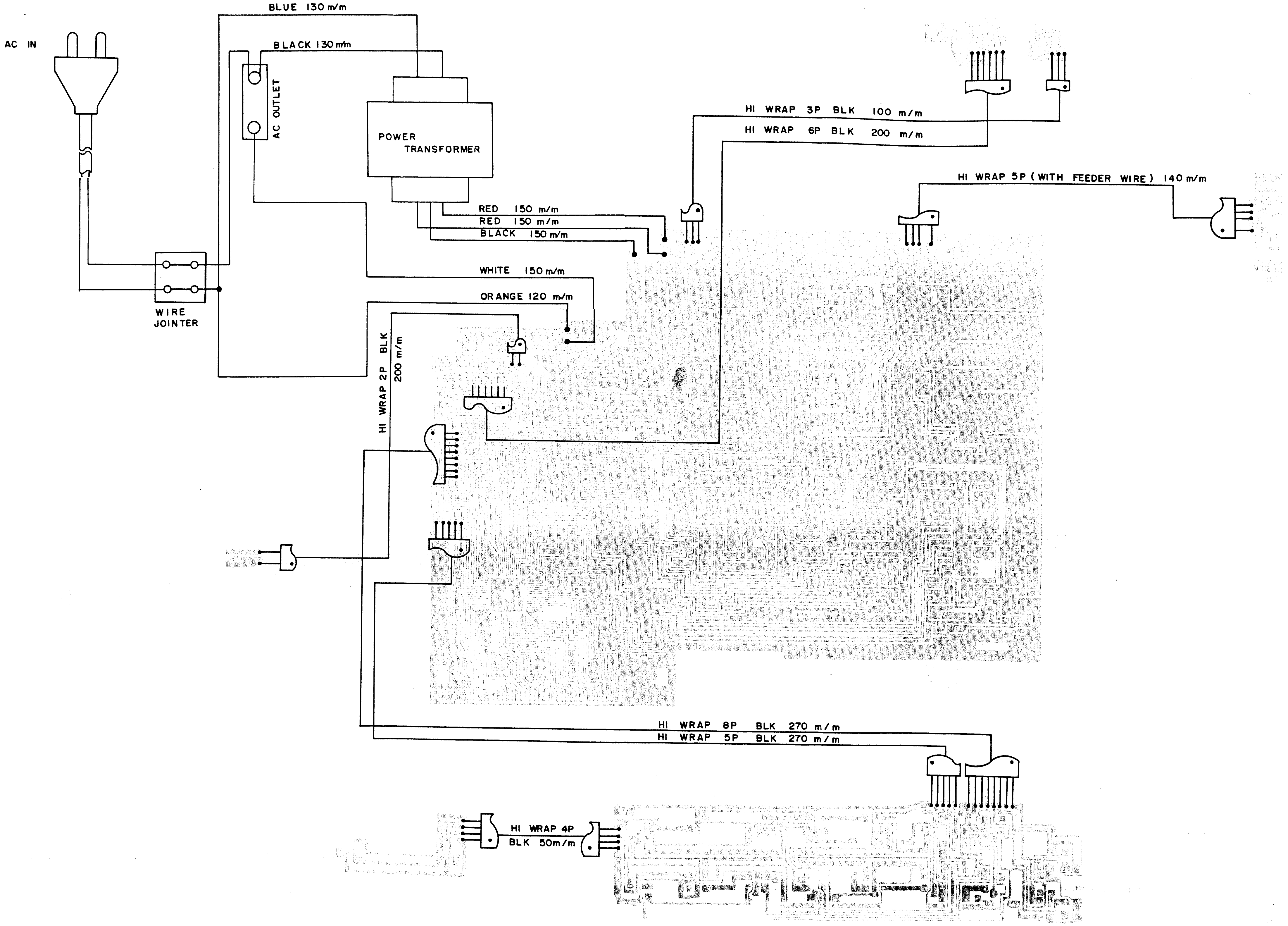
PCB LAYOUT


220V
BLUE
110V
WHITE
BLACK
P/T LINE
VOLTAGE SELECTOR LINE
AC IN
S722
POWER
BLACK
RED
T202
T201
T105
T104
L101
AM IF
FM IF
FRONT END
C903
D901
D902
C901
C902
SR102
Q205
Q206
Q204
Q203
Q202
R214
R213
R210
R205
Q901
R902
R903
CR3230CC02
C909
C905
D905
D906
D903
Q710
Q711
Q712
Q713
Q714
R912
Q109
Q902
Q903
R913
R910
R908
TP1
TP2
D712
D708
D716
D717
D714
C907
D724
D707
R716
R715
R717
C714
R137
D706
D727
R135
R136
D721
D720
D719
D718
IF OUT
GND
TA7343AP
IC201
C209
C210
R219
R202
R201
C202
C204
C205
SR101
R218
L102
T101
CF102
C105
R108
T102
T103
IC101 TA7758P
C115
R111
T106
T107
C129
C130
Q106
Q107
D103
D104
C139
R125
R101
R706
R704
C710
C706
C707
R728
C708
C138
R701
C701
C705
Q703
R705
C703
Q704
R703
C704
C709
R709
Q709
R70
Q708
R711
C702
D703
D702
D701
R707
R708
C137
R145
C136
Q110
Q108
Q705
Q706
R140
R141
Q707
C711
R712
R723
C712
IC702
TC9306F
Q27
C713
C715
R714
U705
R710
R134
R131
R901
PL001
PL002
PL003
MODEL NO. TT-703DPL
AIT-096
1V-0
5V
DOWN
UP
M-SCAN
BAND
POWER
R723
R718
D001
C001
S717
DISPLAY
S719
CLOCK SET
S721
SLEEP
S718
TM SELECT
S720
TIM SET
S715
CH1
S714
CH2
S713
CH3
S712
CH4
S711
CH5
S710
CH6
S703
MODE
S709
CH7
S708
CH8
S707
CH9
S706
CH10
S716
MEMO
S705
M-SCAN
S704
BAND
S701
DOWN
S702
UP

PCB LAYOUT

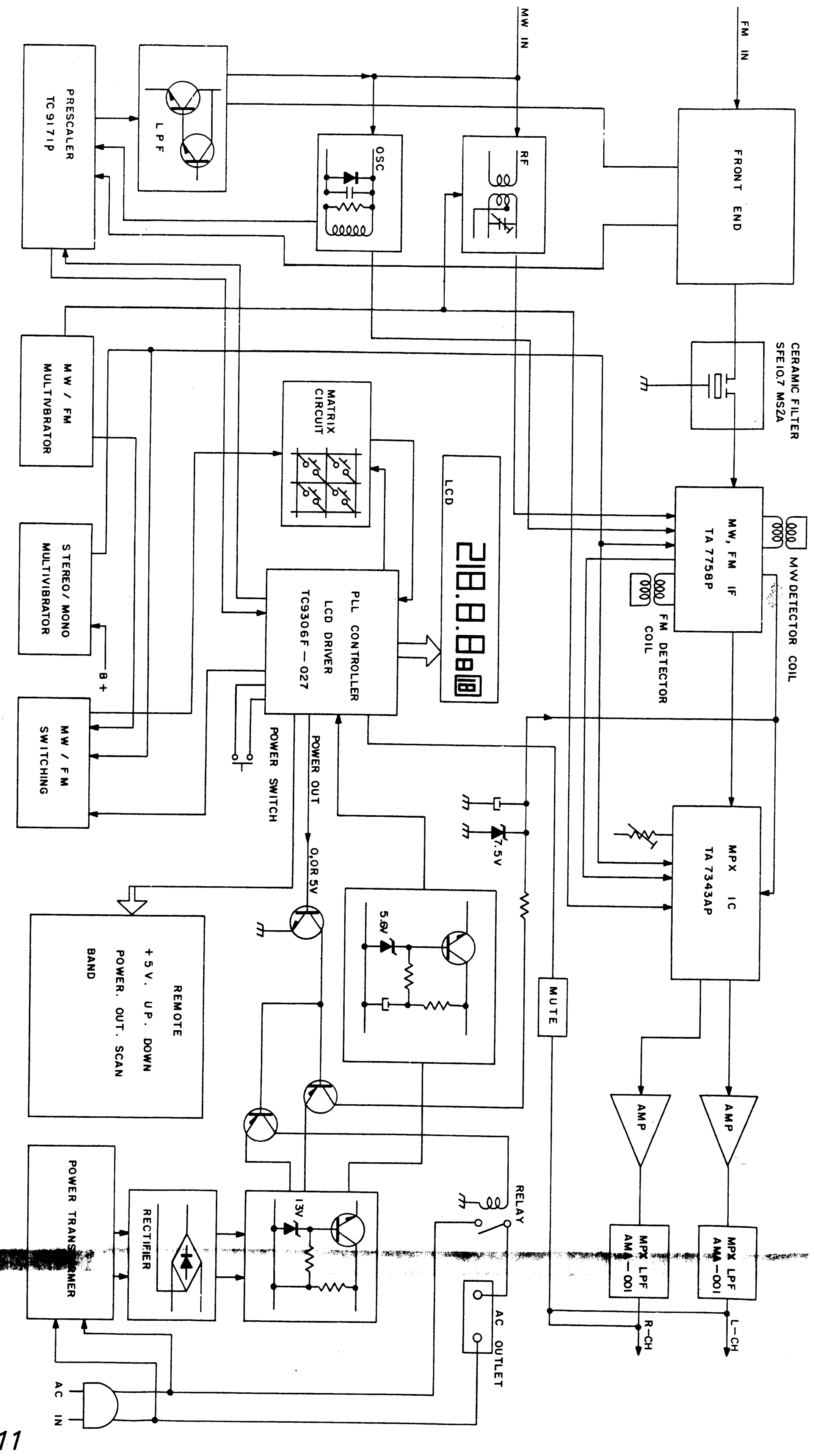

220V
BULE
BLUE
110V
WHITE
WHITE
BLACK
P/T LINE
VOLTAGE SELECTOR LINE
S722
POWER
BLACK
RED
RED
C903
D901
C901
D902
C902
T202
T201
T105
C141
T104
L101
AM IF
FM IF
FRONT END
R217
R216
C207
R213
R210
R124
C213
Q205
Q206
R215
R208
R211
R212
Q203
Q204
C211
C212
R222
R221
Q202
R206
R207
C206
C209
C210
R205
R204
C202
R219
R201
R202
TA7343AP
IC201
SR101
R218
R220
C204
C201
C203
R109
GND
L102
R110
C105
C106
C102
C101
R107
Z103
CF104
T101
C119
C124
C120
C122
Q103
R119
C125
Q104
R117
R118
R116
R120
D102
Q105
R122
R121
R130
C123
D101
C117
C121
R115
C128
C109
R706
R704
R101
T107
C127
C131
D104
R128
C132
R126
Q107
R129
Q106
R123
R127
T106
C129
C130
C139
R125
R112
C710
C706
C707
R728
C708
C138
R701
C701
C705
Q703
R705
C703
C704
Q704
R703
IC701 TC9171P
C709
R709
Q709
R702
R711
Q708
D702
D701
D703
C702
R708
C137
R145
R141
Q707
R142
R139
C134
R111
C115
IC101 TA7758P
R108
C104
R138
T102
C112
C110
C107
C108
T103
C111
C116
C114
C113
R134
R131
R132
Z108
D704
C135
C136
R144
R143
Q110
R140
Q706
R707
C133
Q705
AIT-097
MODEL NO. TT-703DPS
R912
C909
Q905
D905
Q712
Q713
R720
R721
R719
R722
Q710
Q711
Q714
TP1
TP2
D712
D708
D716
D714
D717
C907
R905
R906
Q903
D713
D711
D721
D720
D719
D710
R715
R717
C714
R137
R716
D724
D707
D706
D727
R135
R713
C711
R712
D723
C713
C715
D718
IC702
TC9306F-027
Z02
R714
D705
R710
R901
IF OUT
R136
C905
D903
Q901
R902
R903
C904
C906
C908
D904
D906
R913
Q902
R907
Q904
R909
R911
R223
Q109
R910
R908
PL001
PL002
PL003
R723
R718
5V
DOWN
UP
M-SCAN
BAND
POWE
D001
C001
S717
DISPLAY
S719
CLOCK SET
S715
CH1
S714
CH2
S713
CH3
S712
CH4
S711
CH5
S710
CH6
S703
MODE
S718
TM SELECT
S720
TIM SET
S701
DOWN
S702
UP
S709
CH7
S708
CH8
S707
CH9
S706
CH10
S716
MEMO
S705
M-SCAN
S704
BAND

WIRING DIAGRAM


BLUE 130 m/m
AC IN
BLACK 130 m/m
AC OUTLET
POWER TRANSFORMER
HI WRAP 3P BLK 100 m/m
HI WRAP 6P BLK 200 m/m
HI WRAP 5P (WITH FEEDER WIRE) 140 m/m
RED 150 m/m
RED 150 m/m
BLACK 150 m/m
WHITE 150 m/m
ORANGE 120 m/m
WIRE JOINTER
HI WRAP 2P BLK 200 m/m
HI WRAP 8P BLK 270 m/m
HI WRAP 5P BLK 270 m/m
HI WRAP 4P BLK 50m/m

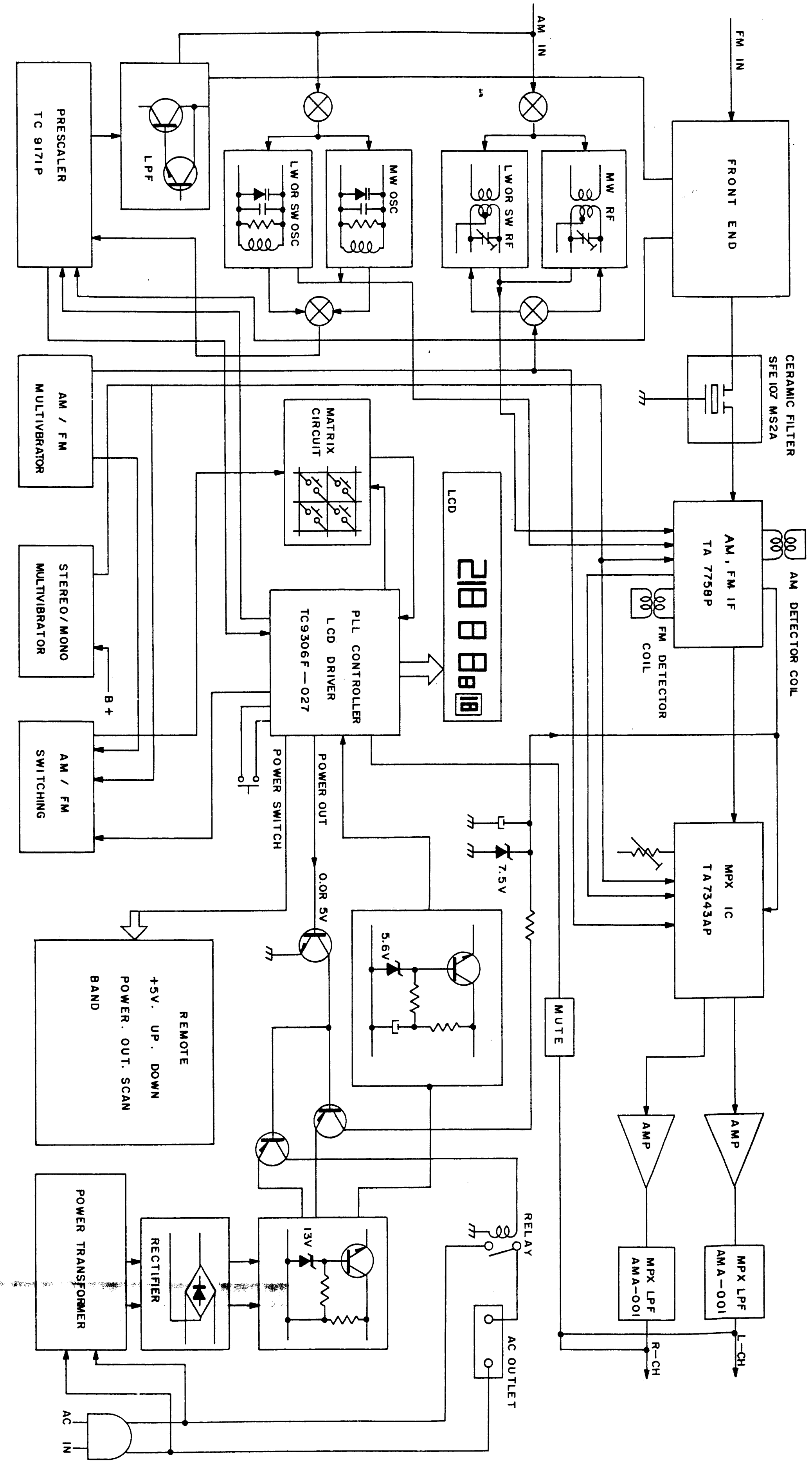
MODEL NO. **TT-702DP**

BLOCK DIAGRAM


MW IN
FM IN
PRESCALER TC 9171P
LPF
OSC
RF
FRONT END
CERAMIC FILTER SFE10.7 MS2A
MW / FM MULTIVIBRATOR
MATRIX CIRCUIT
LCD
STEREO/ MONO MULTIVIBRATOR
PLL CONTROLLER LCD DRIVER TC9306F—027
MW, FM IF TA 7758P
MW DETECTOR COIL
FM DETECTOR COIL
B+
MW / FM SWITCHING
POWER SWITCH
POWER OUT
0.OR 5V
7.5V
5.6V
MPX IC TA 7343AP
REMOTE
+5V. UP. DOWN
POWER. OUT. SCAN
BAND
MUTE
AMP
AMP
POWER TRANSFORMER
RECTIFIER
13V
RELAY
MPX LPF AMA—001
MPX LPF AMA—001
R—CH
L—CH
AC OUTLET
AC IN

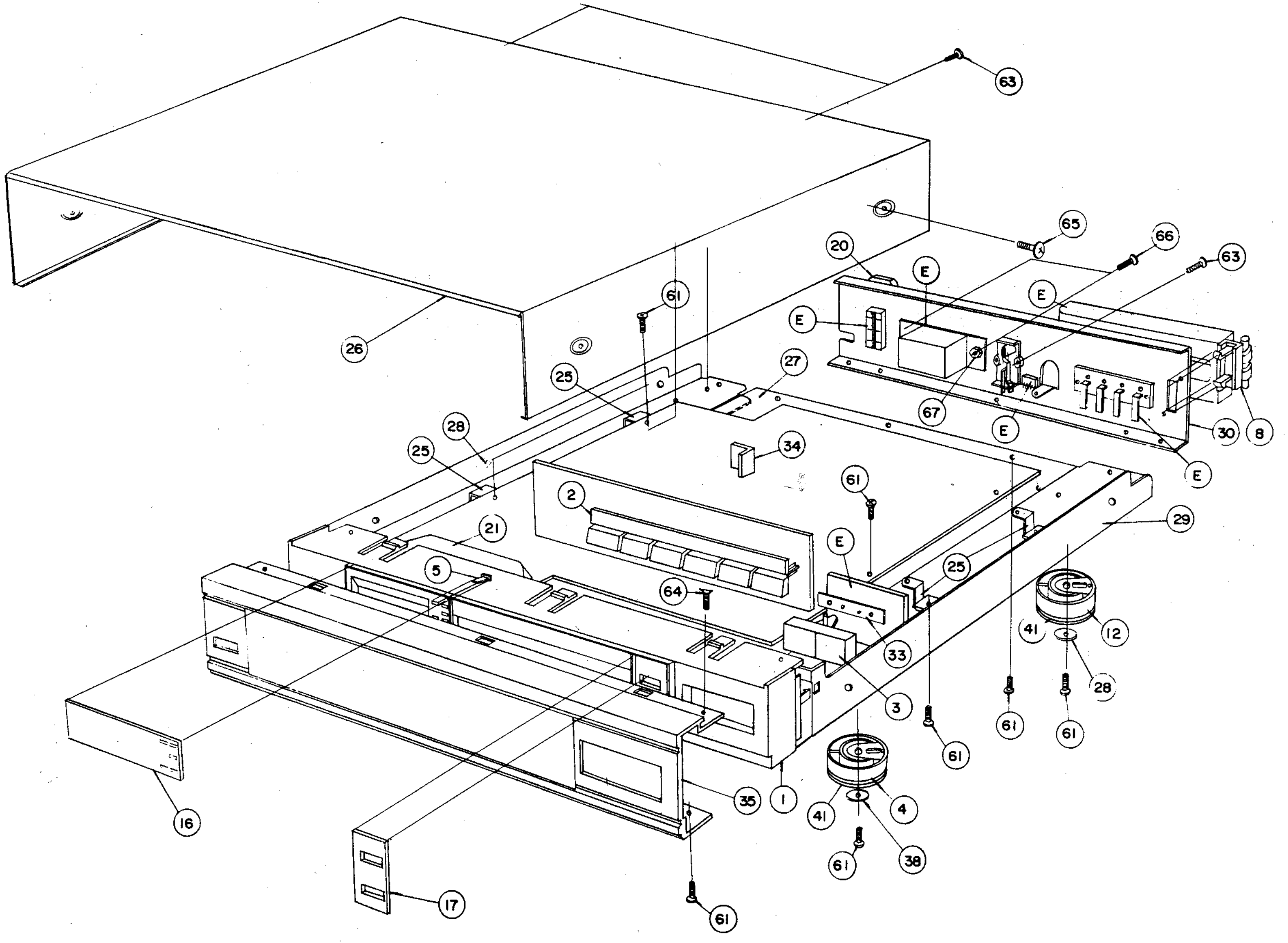
MODEL NO. **TT-703DPL.DPS**

BLOCK DIAGRAM


AM IN
FM IN
PRESCALER TC 9171P
LPF
LW OR SW OSC
MW OSC
LW OR SW RF
MW RF
FRONT END
CERAMIC FILTER SFE 10.7 MS2A
AM / FM MULTIVIBRATOR
MATRIX CIRCUIT
LCD
STEREO/MONO MULTIVIBRATOR
PLL CONTROLLER LCD DRIVER TC9306F—027
AM, FM IF TA 7758P
AM DETECTOR COIL
FM DETECTOR COIL
B+
AM / FM SWITCHING
POWER SWITCH
POWER OUT
0.OR 5V
7.5V
5.6V
MPX IC TA 7343AP
REMOTE
+5V. UP. DOWN
POWER. OUT. SCAN
BAND
MUTE
AMP
AMP
POWER TRANSFORMER
RECTIFIER
13V
RELAY
MPX LPF AMA—001
MPX LPF AMA—001
R—CH
L—CH
AC OUTLET
AC IN

MODEL NO.**TT-702DP**

EXPLODED VIEW



63
26
65
66
63
20
E
E
E
61
27
25
67
E
30
8
28
25
34
E
61
2
29
21
E
5
25
64
41
12
33
28
3
61
61
61
16
35
1
41
4
38
61
17
61

MODEL NO.TT-702DP

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	TC9306F 027BS	IC702
IC	PC	1	TC9171P	IC701
IC	PC	1	TA7758P	IC101
IC	PC	1	TA7343AP	IC201
LAMP	PC	1	5V 115mA SL8804-05115	PL001
LAMP	PC	2	12V 40mA SL8811-102040	PL002, 003
LCD	PC	1	LT5214M 4TP56	
VVC DIODE	PC	2	ISV149, OR ISV149B (PAIR)	D101, 103
X-TAL	PC	1	X-TAL 7200	Z702
SEMI FIXED RESISTOR	PC	2	SEMI VR 103B	SR101, 102
TACT SWITCH	PC	17	KHH15902	S701, 702, 703, 704, S705, 706, 707, 708, S709,710, 711, 712, S713, 714, 715, 716, S722
TACT SWITCH	PC	5	KHH10902	S717, 718, 719, S720, 721
PC BOARD	PC	1	AIT090	
FRONT END	PC	1	OE1020, OR8-4-101	
ANTENNA TERMINAL	PC	1	4P, AS4-1028A	
RCA JACK	PC	1	2P, AP2-0028	
T-ANTENNA ASS'Y (W/Y TERMINAL)	PC	1	Z = 300OHM, L = 3.5m	
AM LOOP ANTENNA ASS'Y	PC	1	AAT-033	
RELAY	PC	1	CR323DC012	
POWER TRANSFORMER	PC	1	SAFETY STANDARD	
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
AC OUTLET	PC	1	SAFETY STANDARD	
PHONE CORD	PC	1	2P, RCA BOTH L:0.6m	
FM CERAMIC FILTER	PC	2	SFE10.7, MS2A	CF102, 104
AM CERAMIC FILTER	PC	1	SFU450B	Z103
CHOKE COIL	PC	2	2.2uH, MOLDING	L101, 102
LOW PASS FILTER COIL	PC	2	AMA001	T201, 202
MW ANTENNA COIL	PC	1	AAT035	T104
MW OSC COIL	PC	1	AAO-024	T106
AM IFT A	PC	1	AAA-013	T101
AM IFT (DET)	PC	1	AAD-004	T103
FM IFT (DET)	PC	1	AFD-007	T102
TRIMMER	PC	2	30p, CVN-630	C117, 712
TRANSISTOR	PC	1	KTD880Y	Q901
FET	PC	1	KTK161GR	Q105
TRANSISTOR	PC	16	KTC1815-GR	Q109, 710, 711, 712, Q713, 714, 903, 905, Q203, 204, 205, 206, Q703, 704, 706, 709
TRANSITOR	PC	1	KTC1923-Y	Q110
TRANSISTOR	PC	7	KTA1015-GR	Q108, 202, 705, 707, Q708, 902, 904
RECTIFIER DIODE	PC	2	IN4001	D901, 902
SI DIODE	PC	21	IS2473	D001, 703, 704, 705, D706, 707, 708, 710, D712, 716, 717, D718, 719, 720, D721

MODEL NO.TT-702DP

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
ZENER DIODE	PC	1	05AZ5.6	D904
ZENER DIODE	PC	1	05AZ7.5	D906
ZENER DIODE	PC	1	05AZ13	D903
CAPACITOR CERAMIC	PC	3	50V, 1000pF, K B	#C114, 136, 137
CAPACITOR CERAMIC	PC	5	50V, 0.01uF, Z F	#C101, 102, 109, #C139, 704
CAPACITOR CERAMIC	PC	2	50V, 2200pF, K B	#C113, 710
CAPACITOR CERAMIC	PC	14	50V, 0.022uF, Z F	#C107, 115, 116, #C121 125, 133, #C134, 140, 701, #C707, 708, 711, #C715, 907
CAPACITOR CERAMIC	PC	3	50V, 0.047uF, Z F	#C901, 902, 104
CAPACITOR CERAMIC	PC	1	50V, 22pF, J SL	#C130
CAPACITOR CERAMIC	PC	1	50V, 33pF, J SL	#713
CAPACITOR CERAMIC	PC	1	50V, 47pF, J SL	#C001
CAPACITOR E/ALUMINUM	PC	1	6.3V, 2200uF, M-S 13 × 20	#C714
CAPACITOR E/ALUMINUM	PC	1	16V, 330uF, M-S 10 × 12.5	#C702
CAPACITOR E/ALUMNIUM	PC	1	25V, 470uF, M-S 10 × 16	#C904
CAPACITOR E/ALUMINUM	PC	1	35V, 1000uF, M-S 13 × 25	#C903
CAPACITOR E/ALUMINUM	PC	1	10V, 100uF, M-T, 6.3 × 11	#C203
CAPACITOR E/ALUMINUM	PC	3	16V, 10uF, M-T 4 × 7	#C108, 112, 706
CAPACITOR E/ALUMINUM	PC	1	16V, 22uF, M-T 5 × 11	#C111
CAPACITOR E/ALUMINUM	PC	2	16v, 220uF, M-T 8 × 11.5	#C905, 909
CAPACITOR E/ALUMINUM	PC	2	16V, 47uF, M-T 6.3 × 11	#C110, 908
CAPACITOR E/ALUMINUM	PC	9	50V, 1.0uF, M-T 4 × 7	#C138, 204, 206, #C207, 208, 211, #C212, 213, 703
CAPACITOR E/ALUMINUM	PC	1	50V, 2.2uF, M-T 4 × 7	#C105
CAPACITOR E/ALUMINUM	PC	3	50V, 3.3uF, M-T 4 × 7	#C135, 201, 202
CAPACITOR E/ALUMINUM	PC	1	50V, 4.7uF, M-T 5 × 7	#C103
CAPACITOR F/POLYESTR	PC	2	100V, 0.033uF, J-T 8.1 × 13	#C209, 210
CAPACITOR STYROL	PC	1	100V, 1000PF, J	#C205
CAPACITOR STYROL	PC	1	100V, 470PF, J	#C129
RESISTOR CARBON FILM	PC	2	1/5W, 100ohm, 5%	#R145, 220
RESISTOR CARBON FILM	PC	4	1/5W, 1Kohm, 5%	#R143, 201, 219, #R701
RESISTOR CARBON FILM	PC	10	1/5W, 10Kohm, 5%	#R140, 142, 205, #R218, 702, 703, #R705, 711, 907, #R909,
RESISTOR CARBON FILM	PC	5	1/5W, 100Kohm, 5%	#R115, 125, 709, #R712, 715
RESISTOR CARBON FILM	PC	7	1/5W, 150Kohm, 5%	#R204, 717, 718, #R719, 720, 721, #R722
RESISTOR CARBON FILM	PC	2	1/5W, 220ohm, 5%	#R101, 130
RESISTOR CARBON FILM	PC	2	1/5W, 2.2Kohm, 5%	#R206, 207

MODEL NO.**TT-702DP**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	2	1/5W, 22Kohm, 5%	
RESISTOR CARBON FILM	PC	1	1/5W, 220Kohm, 5%	#R110, 132
RESISTOR CARBON FILM	PC	1	1/5W, 240Kohm, 5%	#R144
RESISTOR CARBON FILM	PC	2	1/5W, 270Kohm, 5%	#R723
RESISTOR CARBON FILM	PC	3	1/5W, 330ohm, 5%	#R208, 211
RESISTOR CARBON FILM	PC	6	1/5W, 3.3Kohm, 5%	#R107, 111, 121
				#R212, 215, 216,
RESISTOR CARBON FILM	PC	1	1/5W, 33Kohm, 5%	#R217, 710, 714
RESISTOR CARBON FILM	PC	1	1/5W, 47ohm, 5%	#R141
RESISTOR CARBON FILM	PC	2	1/5W, 470ohm, 5%	#R112
RESISTOR CARBON FILM	PC	2	1/5W, 4.7Kohm, 5%	#R908, 910
RESISTOR CARBON FILM	PC	6	1/5W, 47Kohm, 5%	#R221, 222
				#R127, 135, 137,
RESISTOR CARBON FILM	PC	2	1/5W, 56Kohm, 5%	#R708, 905, 906
RESISTOR CARBON FILM	PC	2	1/5W, 6.8Kohm, 5%	#R209, 210
RESISTOR CARBON FILM	PC	2	1/5w, 820ohm, 5%	#R108, 202
RESISTOR CARBON FILM	PC	2	1/4W, 100ohm, 5%	#R213, 214
RESISTOR CARBON FILM	PC	1	1/4W, 10Kohm, 5%	#R109, 911
RESISTOR CARBON FILM	PC	1	1/4W, 100Kohm, 5%	#R716
RESISTOR CARBON FILM	PC	1	1/4W, 180ohm, 5%	#R707
RESISTOR CARBON FILM	PC	1	1/4W, 22ohm, 5%	#R903
RESISTOR CARBON FILM	PC	1	1/4W, 220ohm, 5%	#R728
RESISTOR CARBON FILM	PC	1	1/4W, 2.2Kohm, 5%	#R904
RESISTOR CARBON FILM	PC	2	1/4W, 330ohm, 5%	#R139
RESISTOR CARBON FILM	PC	1	1/4W, 4.7Kohm, 5%	#R223, 902
RESISTOR CARBON FILM	PC	3	1/4W, 47Kohm, 5%	#R134
RESISTOR CARBON FILM	PC	1	1/4W, 560ohm, 5%	#R131, 136, 138
RESISTOR CARBON FILM	PC	1	1/4W, 56Kohm, 5%	#R713
RESISTOR CARBON FILM	PC	1	1/2W, 10ohm, 5%	#R913
RESISTOR JUMPER WIRE	M	6.3000	60mm-TX123	#R912
CAPACITOR E/ALUMINUM	PC	1	16V, 47uF, M-S 6.3 × 11 •	#/105
RESISTOR METAL OXIDE	PC	1	2W, 68ohm, 5%	#C906
				#R901

MODEL NO.**TT-702DP**

MECHANICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	REMARKS
PANEL SUB	PC	1		
KNOB TACT SW	PC	2		
KNOB UP DOWN	PC	1		
KNOB POWER TACT	PC	1		
KNOB CLOCK	PC	5		
KNOB SELECTOR	PC	2		
HOLDER ANT TK	PC	1		
FOOT	PC	2		
FOOT	PC	2		
PLATE CLOCK	PC	1		
PLATE SELECTOR	PC	1		
BUSH-CORD	PC	1		
CASE LAMP 3518	PC	1		
SHEET DEFFUSE 70	PC	1		
CABLE TIE	PC	5		
BRACKET PCB	PC	5		
STEEL CABINET	PC	1		
BOTTOM MAIN	PC	1		
SIDE BTM L	PC	1		
SIDE BTM R	PC	1		
CHASSIS BACK	PC	1		
SPRING UP DOWN	PC	1		
HEAT SINK	PC	1		
PANEL FRONT	PC	1		
FIBER AC BLOCK	PC	1		
WASHER PLAIN	PC	2	ø8 × 3.2 × 0.5t	
RECTANGLE WASHER B	PC	2		
FIBER WASHER	PC	2	ø8 × 3.2 × 0.5t	
FOOT CUSHION	PC	4		
CUSHION R, L	PC	2		
GIFT BOX	PC	1		
POLY BAG(S)	PC	1		
WARRANTY CARD	PC	1		
INSPECTION LABEL	PC	1		
SILICAGEL	PC	1		
LABEL 63 mA	PC	1		
SCREW TAPPING	PC	25	BH T2T ø3 × 8 Fe-Zy	
SCREW TAPPING	PC	9	BH T2T ø3 × 10 Fe-Zy	
SCREW TAPPING	PC	6	BH T2T ø3 × 8 Fe-ZB	
SCREW TAPPING	PC	2	FH T2T ø3 × 8 Fe-ZB	
SCREW TAPPING	PC	4	BH T3T ø4 × 8 Fe-ZB	
SCREW TAPPING	PC	1	ø3 × 8 Fe-Zy	
SCREW MACHINE	PC	2	BH M4 × 8 Fe-ZB	
SCREW TAPPING	PC	1	BH T2T ø3 × 14 Fe-Zy	

MODEL NO.TT-703DPL

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	TC9306F 027BS	IC702
IC	PC	1	TC9171P	IC701
IC	PC	1	TA7758P	IC101
IC	PC	1	TA7343AP	IC201
LAMP	PC	1	5V, 115mA SL8804-05115	PL001
LAMP	PC	2	12V, 40mA SL8811-102040	PL002, 003
LCD	PC	1	LT5214M-4TP56	
WC DIODE	PC	4	ISV149 OR ISV149BC	D101, 102, 103, D104
X-TAL	PC	1	X-TAL 7200	Z702
SEMI FIXED RESISTOR	PC	2	SEMI VR 103B	SR101, 102
TACT SWITCH	PC	17	KHH15902	S701, 702, 703, S704, 705, 706, S707, 708, 709, S710, 711, 712, S713, 714, 715, S716, 722,
TACT SWITCH	PC	5	KHH10902	S717, 718, 719, S720, 721
PC BOARD	PC	1	AIT096	
FRONT END	PC	1	75ohm OE-1021	
ANTENNA TERMINAL	PC	1	PAL 75ohm, AK ½-1058	
RCA JACK	PC	1	CP2 4ø	
T-ANTENNA ASS'Y (W/Y TERMINAL)	PC	1	75ohm, AFN-002	
AM LOOP ANTENNA ASS'Y	PC	1	AAT-033	
RELAY	PC	1	CR323DC012	
POWER TRANSFORMER	PC	1	SAFETY STANDARD	
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
WIRE JOINTER	PC	1	SAFETY STANDARD	
AC OUTLET	PC	1	SAFETY STANDARD	
PHONE CORD	PC	1	2P RCA BOTH L:0.6m	
FM CERAMIC FILTER	PC	2	SFE10.7 MS2A	CF102, 104,
AM CERAMIC FILTER	PC	1	SFU450B	Z103
LW ANTENNA COIL	PC	1	AAT-036	T105
CHOKE COIL	PC	2	2.2uH, MOLDING	L101, 102
LOW PASS FILTER COIL	PC	2	AMA001	T201, 202
MW ANTENNA COIL	PC	1	AAT-035	T104
MW OSC COIL	PC	1	AAO-024	T106
AM IFT A	PC	1	AAO-013	T101
AM IFT (DET)	PC	1	AAD-004	T103
FM IFT (DET)	PC	1	AFD-007	D102
LW OSC COIL	PC	1	AAO-025	T107
TRIMMER	PC	3	30P CVN630	C117, 712, 120
TRANSISTOR	PC	1	KTD880Y	Q901
FET	PC	1	KTK161GR	Q105
TRANSISTOR	PC	18	KTC1815GR	Q203, 204, 205, Q206, 703, 704, Q709, 109, 710, Q711, 712, 713, Q714, 903, 905, Q103, 104
TRANSISTOR	PC	1	KTC1923Y	Q110

MODEL NO.TT-703DPL

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
TRASISTOR	PC	7	KTA1015GR	Q108, 202, 705, Q707, 708, 902, Q904
TRANSISTOR	PC	2	2SC2878A	Q106, 107
RECTIFIER DIODE	PC	2	IN4001	D901, 902
SI DIODE	PC	24	IS2473	D723, 724, 725 D726, 905, 701, D702, 001, 703, D704, 705, 706, D707, 708, 710, D712, 716, 717, D718, 719, 720, D721
ZENER DIODE	PC	1	05AZ5.6	D904
ZENER DIODE	PC	1	05AZ7.5, 7.5 V	D906
ZENER DIODE	PC	1	05AZ13, 13 V	D903
CAPACITOR CERAMIC	PC	3	50V, 1000pF, K B	#C114, 136, 137
CAPACITOR CERAMIC	PC	5	50V, 0.01uF, Z F	#C101, 102, 109, #C139, 704
CAPACITOR CERAMIC	PC	2	50V, 2200pF, K B	#C113, 710
CAPACITOR CERAMIC	PC	17	50V, 0.022uF, Z F	#C107, 115, 116, #C121, 125, 133, #C134, 140, 701, #C707, 708, 711, #C715, 907
CAPACITOR CERAMIC	PC	4	50V, 0.047uF, Z F	#C104, 901, 902, #C127
CAPACITOR CERAMIC	PC	1	50V, 22pF, J SL	#C130
CAPACITOR CERAMIC	PC	1	50V, 33pF, J SL	#C713
CAPACITOR CERAMIC	PC	1	50V, 47pF, J SL	#C001
CAPACITOR CERAMIC	PC	17	50V, 82pF, J SL	#C119
CAPACITOR CERAMIC	PC	1	50V, 150pF, J SL	#C131
CAPACITOR E/ALUMINUM	PC	1	6.3V, 2200uF, M-S 13×20	#C714
CAPACITOR E/ALUMINUM	PC	1	16V, 330uF, M-S 10×12.5	#C702
CAPACITOR E/ALUMINUM	PC	1	25V, 470uF, M-S 10×16	#C904
CAPACITOR E/ALUMINUM	PC	1	1000uF, M-S 13×25	#C903
CAPACITOR E/ALUMINUM	PC	1	10V, 100uF, M-T 6.3×11	#C203
CAPACITOR E/ALUMINUM	PC	3	16V, 10uF, M-T, 4×7	#C108, 112, 706
CAPACITOR E/ALUMINUM	PC	2	16V, 220uF, M-T 8×11.5	#C905, 909
CAPACITOR E/ALUMINUM	PC	2	16V, 47uF, M-T 6.3×11	#C110, 908
CAPACITOR E/ALUIMNUM	PC	9	50V, 1.0uF, M-T 4×7	#C138, 204, 206, #C207, 208, 211, #C212, 213, 703
CAPACITOR E/ALUMINUM	PC		50V, 2.2uF, M-T 4×7	#C105
CAPACITOR E/ALUMINUM	PC	3	50V, 3.3uF, M-T 4×7	#C135, 201, 202
CAPACITOR E/ALUMINUM	PC	1	50V, 4.7uF, M-T 5×7	#C103
CAPACITOR F/POLYESTR	PC	2	100V, 0.033uF, J-T 8.1×13	#C209, 210
CAPACITOR STYROL	PC	1	100V, 1000pF, J	#C205
CAPACITOR STYROL	PC	1	100V, 470pF J	#C129
CAPACITOR STYROL	PC	1	100V, 220pF, J	#C132
RESISTOR CARBON FILM	PC	2	1/5W, 100ohm, 5%	#R145, 220
RESISTOR CARBON FILM	PC	5	1/5W, 1Kohm, 5%	#R143, 201, 219, #R701, 123

MODEL NO.**TT-703DPL**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
CAPACITOR E/ALUMINUM	PC	1	16V, 22uF, M-T 5×11	#C111
RESISTOR CARBON	PC	12	1/5W, 10Kohm, 5%	#R140, 142, 205,
				#R218, 702, 703,
				#R704, 705, 706
				#R711, 907, 909
RESISTOR CARBON FILM	PC	5	1/5W, 100Kohm, 5%	#R115, 125, 709,
				#R712, 715
RESISTOR CARBON FILM	PC	7	1/5W, 150Kohm, 5%	#R204, 717, 718,
				#R719, 720, 721,
RESISTOR CARBON FILM	PC	7		#R722
			1/5W, 220ohm, 5%	#R101, 130
			1/5W, 2.2Kohm, 5%	#R206, 207
RESISTOR CARBON FILM	PC	2	1/5W, 22Kohm, 5%	#R110, 132
RESISTOR CARBON FILM	PC	2	1/5W, 220Kohm, 5%	#R144, 120, 124
RESISTOR CARBON FILM	PC	2	1/5W, 240Kohm, 5%	#R723
RESISTOR CARBON FILM	PC	1	1/5W, 270Kohm, 5%	#R208, 211
RESISTOR CARBON FILM	PC	1	1/5W, 330ohm, 5%	#R107, 111, 121
RESISTOR CARBON FILM	PC	2	1/5W, 3.3Kohm, 5%	#R212, 215, 216,
RESISTOR CARBON FILM	PC	3		#R217, 710, 714,
RESISTOR CARBON FILM	PC	7		#R119
			1/5W, 33Kohm, 5%	#R141
			1/5W, 47ohm, 5%	#R112
RESISTOR CARBON FILM	PC	1	1/5W, 470ohm, 5%	#R908, 910
RESISTOR CARBON FILM	PC	1	1/5W, 4.7Kohm, 5%	#R221, 222
RESISTOR CARBON FILM	PC	2	1/5W, 47Kohm, 5%	#R127, 135, 137,
RESISTOR CARBON FILM	PC	2		#R708, 905, 906,
RESISTOR CARBON FILM	PC	7		#R128
			1/5W, 56Kohm, 5%	#R209, 210
			1/5W, 6.8Kohm, 5%	#R108, 202
RESISTOR CARBON FILM	PC	2	1/5W, 820ohm, 5%	#R213, 214
RESISTOR CARBON FILM	PC	2	1/5W, 68Kohm, 5%	#R118
RESISTOR CARBON FILM	PC	2	1/4W, 100ohm, 5%	#R109, 911
RESISTOR CARBON FILM	PC	1	1/4W, 10Kohm, 5%	#R716
RESISTOR CARBON FILM	PC	2	1/4W, 100Kohm, 5%	#R707
RESISTOR CARBON FILM	PC	1	1/4W, 180ohm, 5%	#R903
RESISTOR CARBON FILM	PC	1	1/4W, 22ohm, 5%	#R728
RESISTOR CARBON FILM	PC	1	1/4W, 220ohm, 5%	#R904
RESISTOR CARBON FILM	PC	1	1/4W, 2.2Kohm, 5%	#R139
RESISTOR CARBON FILM	PC	1	1/4W, 330ohm, 5%	#R223, 902
RESISTOR CARBON FILM	PC	1	1/4W, 4.7Kohm, 5%	#R134
RESISTOR CARBON FILM	PC	2	1/4W, 47Kohm, 5%	#R131, 136, 138
RESISTOR CARBON FILM	PC	1	1/4W, 560ohm, 5%	#R713
RESISTOR CARBON FILM	PC	3	1/4W, 56Kohm, 5%	#R913
RESISTOR CARBON FILM	PC	1	1/2W, 10ohm, 5%	#R912
RESISTOR CARBON FILM	PC	1	60mm-TX123	#/105
RESISTOR CARBON FILM	PC	1	16V, 47uF, M-S 6.3×11	#C906
RESISTOR JUMPER WIRE	M	6.3000	2W, 68ohm, 5%	#R901
CAPACITOR E/ALUMINUM	PC	1		
RESISTOR METAL OXIDE	PC	1		

MODEL NO.**TT-703DPS**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	TC9306F 027BS	IC702
IC	PC	1	TC9171P	IC701
IC	PC	1	TA7758P	IC101
IC	PC	1	TA7343AP	IC201
LAMP	PC	1	5V, 115mA, SL8804-05115	PL001
LAMP	PC	2	12V, 40mA, SL8811-102040	PL002, 003
LCD	PC	1	LT5214M-4TP56	
VVC DIODE	PC	4	ISV149 or ISV149B (PAIR)	D101, 102, 103,
				D104
X-TAL	PC	1	X-TAL 7200	Z702
SEMI FIXED RESISTOR	PC	2	SEMI VR103B	SR101, 102
TACT SWITCH	PC	17	KHH15902	S701, 702, 703,
				S704, 705, 706,
				S707, 708, 709,
				S710, 711, 712,
				S713, 714, 715,
				S716, 722
TACT SWITCH	PC	5	KHH10902	S717, 718, 719,
				S720, 721
PC BOARD	PC	1	AIT097	
FRONT END	PC	1	75ohm, OE-1021	
ANTENNA TERMINAL	PC	1	PAL 75ohm, AK½-1028	
RCA JACK	PC	1	CP2 4ø	
T-ANTENNA ASS'Y (W/Y TERMINAL)	PC		75 ohm, AFN-002	
AM LOOP ANTENNA ASS'Y	PC	1	AAT-033	
RELAY	PC	1	CR323DC012	
WIRE JOINTER	PC	1	SAFETY STANDARD	
POWER TRANSFORMER	PC	1	SAFETY STANDARD	
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
AC OUTLET	PC	1	SAFETY STANDARD	
PHONE CORD	PC	1	2P RCA BOTH L:0.6m	
FM CERAMIC FILTER	PC	2	SFE 10.7 MS2A	CF102, 104,
AM CERAMIC FILTER	PC	1	SFU450B	Z103
SW ANTENNA COIL	PC	1	AAT-037	T105
CHOKE COIL	PC	2	2.2uH MOLDING	L101, 102
LOW PASS FILTER COIL	PC	2	AMA-001	T201, 202
MW ANTENNA COIL	PC	1	AAT-035	T104
MW OSC COIL	PC	1	AAO-024	T106
AM IFT A	PC	1	AAA-013	T101
AM IFT (DET)			AAD-004	T103
FM IFT (DET)			AFD-007	T102
SW OSC COIL	PC	1	AAT-026	T107
TRIMMER	PC	3	30P CVN630	C117, 712, 120
TRANSISTOR	PC	1	KTD880Y	Q901
FET	PC	1	KTK161GR	Q105
TRANSISTOR	PC	18	KTC1815GR	Q109, 710, 711,
				Q712, 713, 714,
				Q903, 905, 103,
				Q104, 203, 204,
				Q205, 206, 703,
				Q704, 706, 709
TRANSISTOR	PC	1	KTC1923Y	Q110

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	REMARKS
TRANSISTOR	PC	7	KTA1015-GR	Q108, 202, 705, Q707, 708, 902, Q904
TRANSISTOR	PC	2	2SC2878A	Q106, 107
RECTIFIER DIODE	PC	2	IN4001	D901, 902
SI DIODE	PC	24	IS2473	D001, 703, 704, D705, 706, 707, D708, 710, 712, D716, 717, 718, D719, 720, 721, D723, 724, 726, D905, 701, 702, D713
ZENER DIODE	PC	1	05AZ5.6	D904
ZENER DIODE	PC	1	05AZ7.5	D906
ZENER DIODE	PC	1	05AZ13	D903
CAPACITOR CERAMIC	PC	3	50V, 1000pF, K B	#C114, 136, 137
CAPACITOR CERAMIC	PC	5	50V, 0.01uF, Z F	#C101, 102, 109, #C139, 704
CAPACITOR CERAMIC	PC	2	50V, 2200pF, K B	#C113, 710
CAPACITOR CERAMIC	PC	17	50V, 0.022uF, Z F	#C107, 115, 116, #C121, 122, 123, #C124, 125, 133, #C134, 140, 701, #C707, 708, 711, #C715, 907
CAPACITOR CERAMIC	PC	3	50V, 0.047uF, Z F	#C104, 901, 902
CAPACITOR CERAMIC	PC	1	50V, 22pF, J SL	#C130
CAPACITOR CERAMIC	PC	1	50V, 33pF, J SL	#C713
CAPACITOR CERAMIC	PC	1	50V, 47pF, J SL	#C001
CAPACITOR CERAMIC	PC	1	50V, 6pF, J SL	#C131
CAPACITOR E/ALUMINUM	PC	1	6.3V, 2200uF, M-S 13 × 20	#C714
CAPACITOR E/ALUMINUM	PC	1	16V, 330uF, M-S 10 × 12.5	#C702
CAPACITOR E/ALUMINUM	PC	1	25V, 470uF, M-S 10 × 16	#C904
CAPACITOR E/ALUMINUM	PC	1	35V, 1000uF, M-S 13 × 25	#C903
CAPACITOR E/ALUMINUM	PC	1	10V, 100uF, M-T 6.3 × 11	#C203
CAPACITOR E/ALUMINUM	PC	3	16V, 10uF, M-T 4 × 7	#C108, 112, 706
CAPACITOR E/ALUMINUM	PC	1	16V, 22uF, M-T 5 × 11	#C111
CAPACITOR E/ALUMINUM	PC	2	16V, 220uF, M-T 8 ×11.5	#C905, 909
CAPACITOR E/ALUMINUM	PC	2	16V, 47uF, M-T 6.3 × 11	#C110, 908
CAPACITOR E/ALUMINUM	PC	9	50V, 1.0uF, M-T 4 × 7	#C138, 204, 206, #C207, 208, 211, #C212, 213, 703
CAPACITOR E/ALUMINUM	PC	1	50V, 2.2uF, M-T 4 × 7	#C105
CAPACITOR E/ALUMINUM	PC	3	50V, 3.3uF, M-T 4 × 7	#C135, 201, 202,
CAPACITOR E/ALUMINUM	PC	1	50V, 4.7uF, M-T 5 × 7	#C103
CAPACITOR F/POLYESTR	PC	2	100V, 0.033uF, J-T 8.1 × 13	#C209, 210
CAPACITOR STYROL	PC	1	100V, 1000pF, J	#C205
CAPACITOR STYROL	PC	1	100V, 470pF, J	#C129

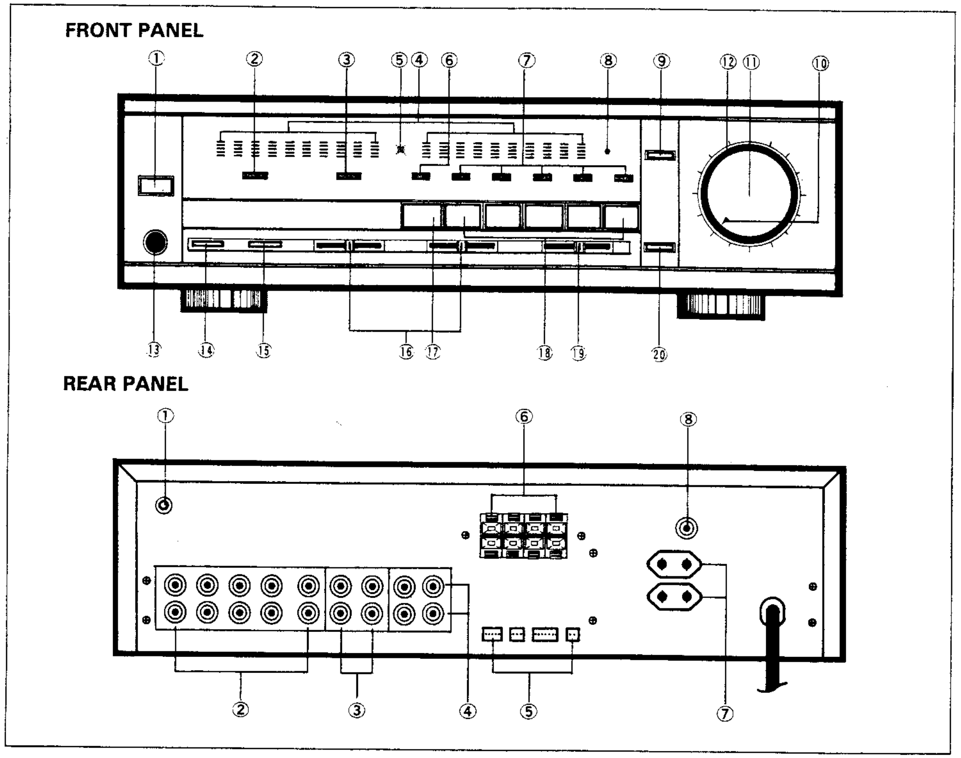
ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
CAPACITOR STYROL	PC	1	100V, 2700pF, J	#C132
RESISTOR CARBON FILM	PC	2	1/5W, 100ohm, 5%	#R145, 220
RESISTOR CARBON FILM	PC	5	1/5W, 1Kohm, 5%	#R143, 201, 219, #R701, 123
RESISTOR CARBON FILM	PC	12	1/5w, 10Kohm, 5%	#R140, 142, 205, #R218, 702, 703, #R705, 711, 907, #R909, 704, 706,
RESISTOR CARBON FILM	PC	11	1/5W, 100Kohm, 5%	#R115, 116
RESISTOR CARBON FILM	PC	7	1/5W, 150Kohm, 5%	#R204, 717, 718, #R719, 720, 721, #R722
RESISTOR CARBON FILM	PC	2	1/5W, 220ohm, 5%	#R101, 130
RESISTOR CARBON FILM	PC	2	1/5W, 2.2Kohm, 5%	#R206, 207
RESISTOR CARBON FILM	PC	2	1/5W, 22Kohm, 5%	#R110, 132
RESISTOR CARBON FILM	PC	3	1/5W, 220Kohm, 5%	#R144, 120, 124
RESISTOR CARBON FILM	PC	1	1/5W, 240Kohm, 5%	#R723
RESISTOR CARBON FILM	PC	2	1/5W, 270Kohm, 5%	#R208, 211
RESISTOR CARBON FILM	PC	3	1/5W, 330ohm, 5%	#R107, 111, 121
RESISTOR CARBON FILM	PC	7	1/5W, 3.3Kohm, 5%	#R212, 215, 216, #R217, 710, 714, #R119
RESISTOR CARBON FILM	PC	1	1/5W, 33Kohm, 5%	#R141
RESISTOR CARBON FILM	PC	1	1/5W, 47ohm, 5%	#R112
RESISTOR CARBON FILM	PC	2	1/5W, 470ohm, 5%	#R908, 910
RESISTOR CARBON FILM	PC	2	1/5W, 4.7Kohm, 5%	#R221, 222
RESISTOR CARBON FILM	PC	7	1/5W, 47Kohm, 5%	#R127, 135, 137, #R708, 905, 128, #R906
RESISTOR CARBON FILM	PC	2	1/5W, 56Kohm, 5%	#R209, 210
RESISTOR CARBON FILM	PC	2	1/5W, 6.8Kohm, 5%	#R108, 202
RESISTOR CARBON FILM	PC	2	1/5W, 820ohm, 5%	#R213, 214
RESISTOR CARBON FILM	PC	2	1/4W, 100ohm, 5%	#R109, 911
RESISTOR CARBON FILM	PC	1	1/4W, 10Kohm, 5%	#R716
RESISTOR CARBON FILM	PC	1	1/4W, 100Kohm, 5%	#R707
RESISTOR CARBON FILM	PC	1	1/4W, 180ohm, 5%	#R903
RESISTOR CARBON FILM	PC	1	1/4W, 22ohm, 5%	#R728
RESISTOR CARBON FILM	PC	1	1/4W, 220ohm, 5%	#R904
RESISTOR CARBON FILM	PC	1	1/4W, 2.2Kohm, 5%	#R139
RESISTOR CARBON FILM	PC	2	1/4W, 330ohm, 5%	#R223, 902
RESISTOR CARBON FILM	PC	1	1/4W, 4.7Kohm, 5%	#R134
RESISTOR CARBON FILM	PC	3	1/4W, 47Kohm, 5%	#R131, 136, 138
RESISTOR CARBON FILM	PC	1	1/4W, 560ohm, 5%	#R713
RESISTOR CARBON FILM	PC	1	1/4W, 56Kohm, 5%	#R913
RESISTOR CARBON FILM	PC	1	1/2W, 10ohm, 5%	#R912
RESISTOR JUMPER WIRE	M	6,3000	60mm-TX123	#/105
CAPACITOR E/ALUMINUM	PC	1	16V, 47uF, M-S 6.3 × 11	#C906
RESISTOR METAL OXIDE	PC	1	2W, 68ohm, 5%	#R901

MODEL NO.

TA-705BR

HI-FI STEREO AMPLIFIER


FRONT PANEL

REAR PANEL

FRONT PANEL FEATURES

1. **Power On/Stand By Switch**
   Each time you depress the button repeatedly is repeated POWER ON, STAND BY condition.
2. **Remote/Stand By LED**
   This LED indicates STAND BY condition.
3. **Muting LED**
   This LED turns into ON when depressing MUTE button of REMOTE control box TRM-718BR and sound level is downed.
4. **Power Level Meters**
   These meters indicate the peak (instantaneous) power output levels when using 8 ohm speakers.
5. **Surround LED**
   This LED indicates surround ON condition.
6. **Tape Monitor LED**
   This LED indicates tape monitor condition.
7. **Source LED**
   This LED indicates source condition (PHONO, CDP, TUNER, DAT, VIDEO).
8. **Remote Receiver**
   This is equipment to receive remote signal from REMOTE control box TRM-718BR.
9. **Meter Range Switch**
   ▬ ×1 : It is a meter scale when output is 80 watt.
   ■ ×0.1: It is a meter scale when output is 8 watt.
10. **Volume LED**
    This LED indicates volume location.
11. **Volume Control Knob**
    Turn the knob to adjust the volume level.
12. **Volume Back Lighting**
    This is a lamp for definition to volume location.
13. **Phones Jack**
    Plug in this jack when listening through headphones. Then speaker output condition has nothing to do with phones jack ON/OFF.
14. **Speaker On/Off Switch**
    ▬ ON : Front (Main) speaker can be operated.
    ■ OFF: Front (Main) speaker cannot be operated.
15. **Loudness Switch**
    Dpress this switch for listening at very low volume levels. The loudness circuit emphasizes the lower frequency regions for a natural tonal balance at low volume levels.
16. **Tone Control**
    Slide the knobs rightward from the center zero (Flat) position to emphasize bass or treble tones. Slide leftward to attenuate (Decrease) bass or treble tones.
17. **Tape Monitor Switch**
    This switch is used for playback or recording with a tape deck TD-703DMS. The programme source with the function selectors can be heard by setting this switch to the OFF position. With the switch in the ON position, playback from a tape deck connected to the tape jacks can be monitored.
18. **Function Selectors**
    Choose the desired programme source by buttons:
    PHONO: For a turn table.
    CDP : For a compact disk player.
    TUNER : For a tuner.
    DAT : For a digital audio tape recorder.
    VIDEO : For a video.
19. **Balance Control**
    Slide this knob to adjust volume balance between left and right spekers.
20. **Surround On/Off Switch**
    ▬ ON : Rear (Surround) speaker can be operated.
    ■ OFF: Rear (Surround) speaker cannot be operated.

REAR PANEL CONNECTIONS

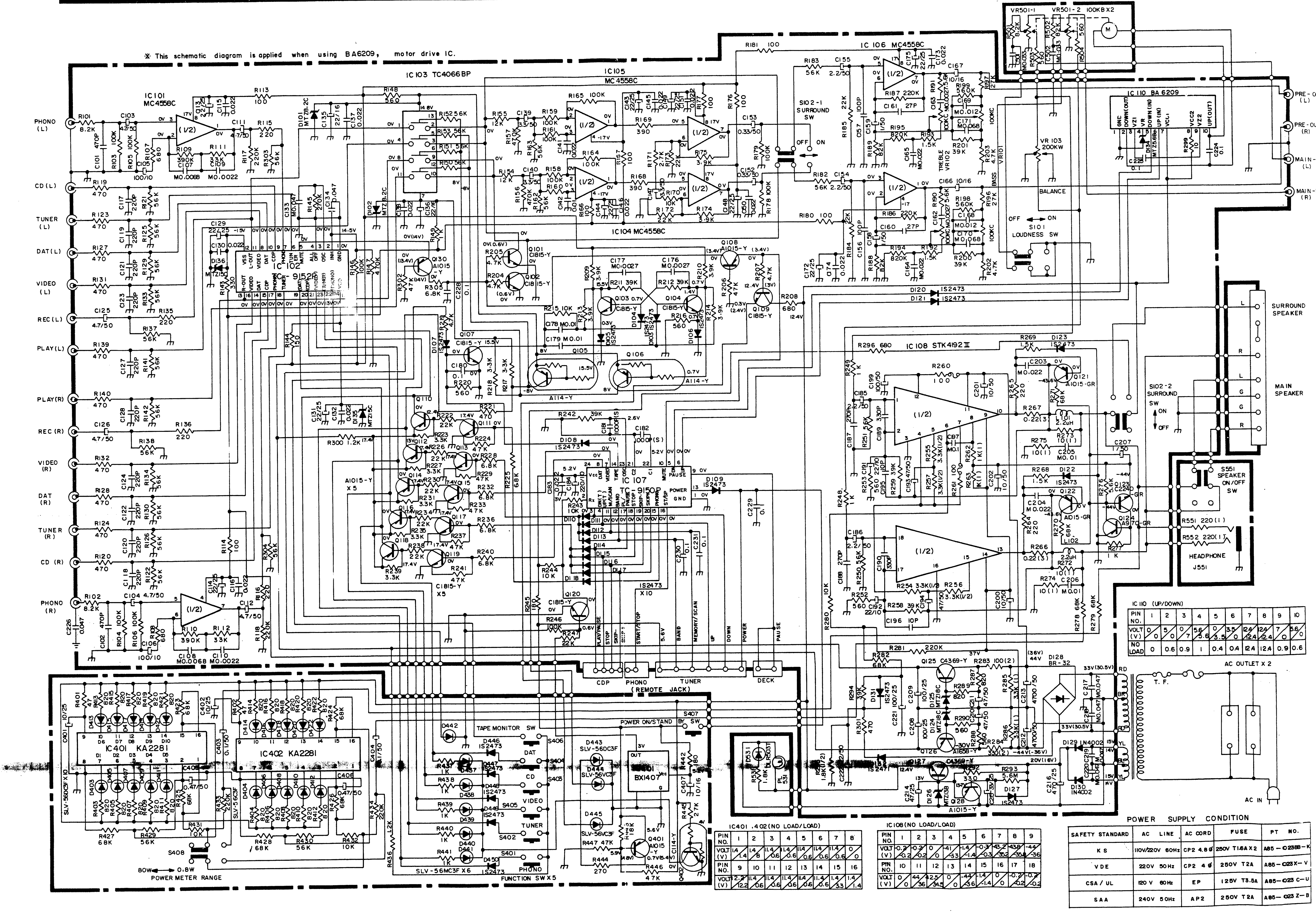
1. **GND**
   It is recommended that the ground wires of the components used along with the until are connected to these terminals.
   Make absolutely sure that ground wire of the turn table is connected to the terminal since this will eliminate the noise caused by the phonomotor to a great extent.
2. **PHONO, CDP, TUNER, DAT, VIDEO, Jacks**
3. **Tape Connecting Jacks**
   REC : Connect (Line in), (Rec) terminal of the DECK to this terminal.
   PLAY: Connect (Line out), (PLAY) terminal of the DECK to this terminal.
4. **Preout, Main in Connection Terminals**
5. **Remote Jacks**
   CDP : Connect with remote jack of compact disc player.
   PHONO: Connect with remote jack of turn table.
   TUNER : Connect with remote jack of tuner.
   DECK : Connect with remote jack of deck.
6. **Speakers Connection Terminals**
7. **AC Outlet**
   These outlets are used to supply power to the components.
   These outlets are not coupled to the unit's power switch. Once the power switch of a component connected to these outlets are set to ON, power will be supplied even if the unit's power switch is set to OFF. The maximum rating of these outlets is a total of 150 watts.
8. **AC Fuse Holder**

SPECIFICATIONS

Power Output	: Main Output: 50 W + 50 W (8 ohm, THD. 0.05%) Surround: 25 W + 25 W (8 ohm, THD 0.05%)
Max Output	: 120 W + 120 W (8 ohm)
T.H.D.	: 0.02%
Power Bandwidth	: 10 Hz – 30 KHz
Frequency Response	: 10 Hz – 50 KHz
Load Impedance	: Main – 8 ohm Surround – 8 ohm
S/N Ratio (Jis a Filter)	: 90 dB (Dat)
Input Sensitivity	: Phono 2.5 mV/47 Kohm Tuner 150 mV/47 Kohm CDP/DAT/Video/Tape 150 mV/47 Kohm
Tone Control	: Bass ±8 dB (100 Hz) Treble ±8 dB (10 KHz)
Power Supply Voltage	: Safety Standard
Power Consumption	: 233 W
Dimensions	: 420(W) × 108(H) × 255(D) mm
Weight	: 7 Kg

MODEL NO. **TA-705BR**

SCHEMATIC DIAGRAM


PHONO (L)
CD (L)
TUNER (L)
DAT (L)
VIDEO (L)
REC (L)
PLAY (L)
PLAY (R)
REC (R)
VIDEO (R)
DAT (R)
TUNER (R)
CD (R)
PHONO (R)
IC101 MC4558C
IC102
IC103 TC4066BP
IC104 MC4558C
IC105 MC4558C
IC106 MC4558C
IC107 TC9150P
IC108 STK4192Ⅱ
IC110 BA6209
IC401 KA2281
IC402 KA2281
VR501-1
VR501-2 100KB X2
S102-1 SURROUND SW
S102-2 SURROUND SW
S101 LOUDNESS SW
VR103 200KW
BALANCE
BASS
TREBLE
SURROUND SPEAKER
MAIN SPEAKER
S551 SPEAKER ON/OFF SW
HEADPHONE J551
PRE-OUT (L)
PRE-OUT (R)
MAIN-IN (L)
MAIN-IN (R)
TAPE MONITOR SW
DAT
CD
VIDEO
TUNER
PHONO
FUNCTION SW X5
POWER ON/STAND BY SW
POWER METER RANGE
80W ↔ 0.8W
S408
BX1407
CDP
PHONO
TUNER
DECK
(REMOTE JACK)
D128 BR-32
T.F.
AC OUTLET X 2
AC IN
PL531

※ This schematic diagram is applied when using BA6209, motor drive IC.

IC110 (UP/DOWN)

PIN NO.	1	2	3	4	5	6	7	8	9	10
VOLT (V)	0/0	5/0	0/7	5.6/5.6	0/3.5	3.5/0	12.4/12.4	12.4/12.4	7/0	5.6/0
NO LOAD	0	0.6	0.9	1	0.4	0.4	12.4	12.4	0.9	0.6

IC401 .402 (NO LOAD/LOAD)

PIN NO.	1	2	3	4	5	6	7	8
VOLT (V)	1.4/1.4	1.4/8	11.4/0.6	11.4/0.6	11.4/0.6	11.4/0.6	11.4/0.6	0/0
PIN NO.	9	10	11	12	13	14	15	16
VOLT (V)	12.2/12.2	11.4/0.6	11.4/0.6	11.4/0.6	11.4/0.6	11.4/0.6	1.4/3.3	1.4/1.4

IC108 (NO LOAD/LOAD)

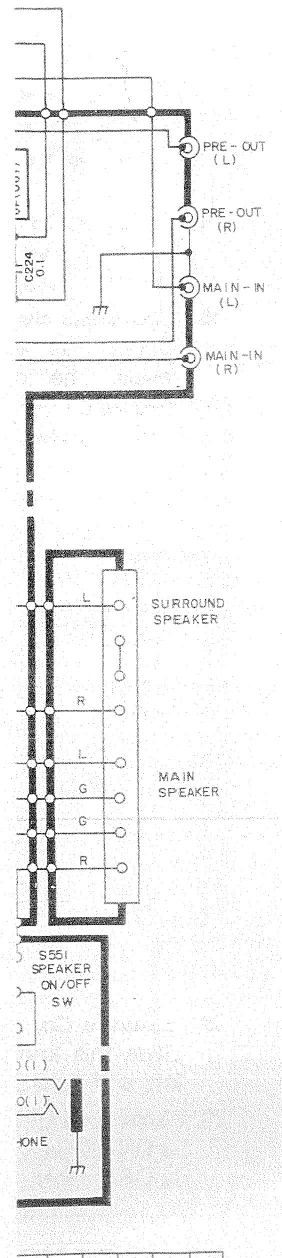
PIN NO.	1	2	3	4	5	6	7	8	9
VOLT (V)	-0.2/-0.2	-0.2/-0.2	0/0	-41/-33	-1.4/-1.4	-0.3/-0.3	-43.2/-35.2	-43.8/-35.8	-44/-36
PIN NO.	10	11	12	13	14	15	16	17	18
VOLT (V)	0/0	44/36	42.5/34.5	0/0	-44/-36	-1.4/-1.4	0/0	-0.2/-0.2	-0.2/-0.2

POWER SUPPLY CONDITION

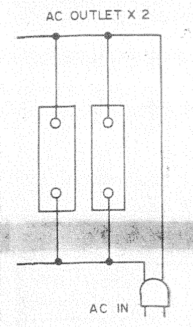
SAFETY STANDARD	AC LINE	AC CORD	FUSE	PT NO.
K S	110V/220V 60Hz	CP2 4.8 ∅	250V T1.6A X 2	A85-023BB-K
VDE	220V 50Hz	CP2 4 ∅	250V T2A	A85-023X-V
CSA / UL	120 V 60Hz	EP	125V T3.5A	A85-023C-U
SAA	240V 50Hz	AP2	250V T2A	A85-023Z-B

MODEL NO. **TA-705BR**

PCB LAYOUT

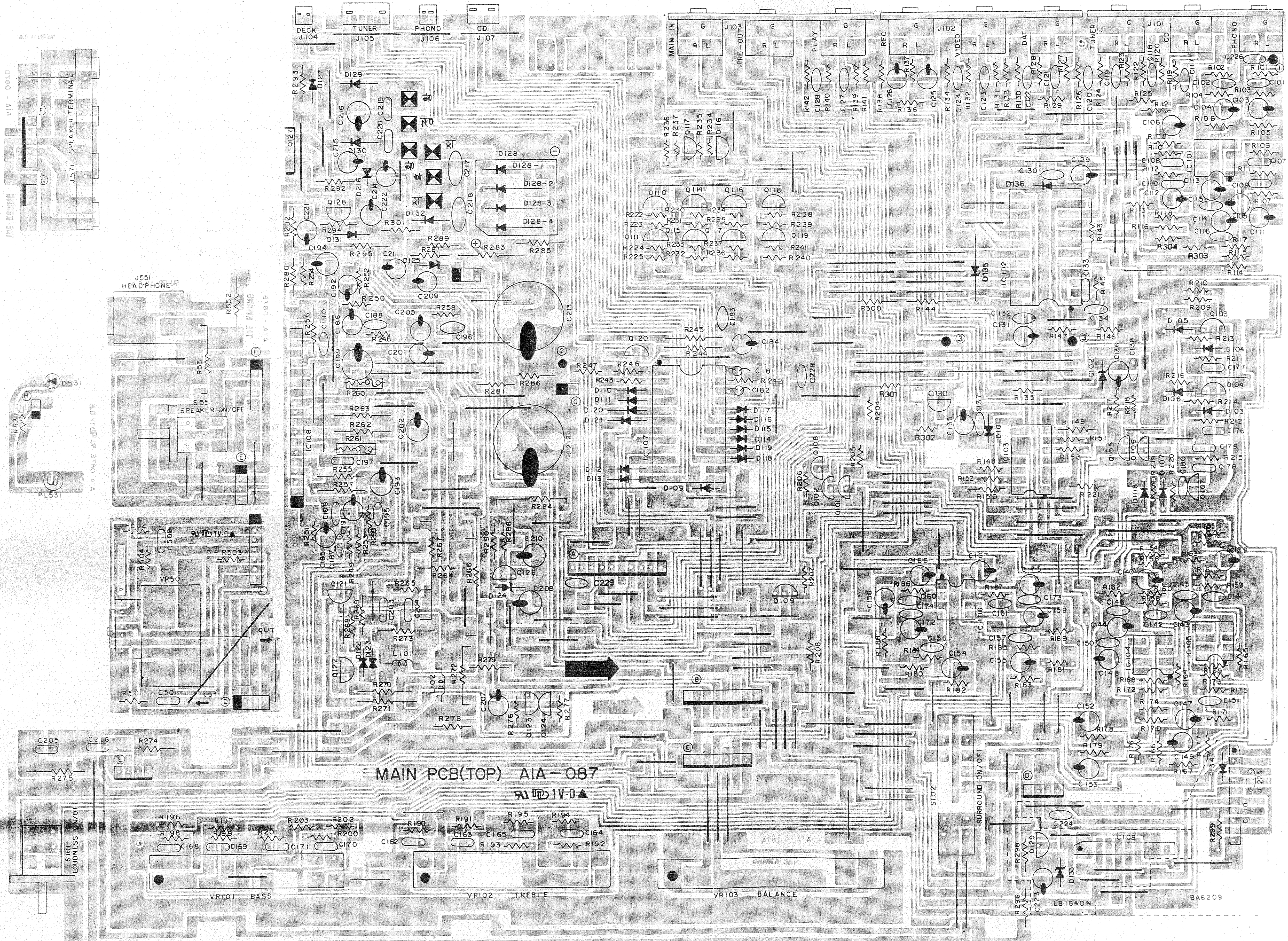

PRE-OUT (L)
PRE-OUT (R)
MAIN-IN (L)
MAIN-IN (R)
C224 0.1
SURROUND SPEAKER
L
R
MAIN SPEAKER
L
G
G
R
S551 SPEAKER ON/OFF SW
HONE

5	6	7	8	9	10
0 / 3.5	3.5 / 0	12.4 / 12.4	12.4 / 12.4	7 / 0	5.6 / 0
0.4	0.4	12.4	12.4	0.9	0.6


AC OUTLET X 2
AC IN

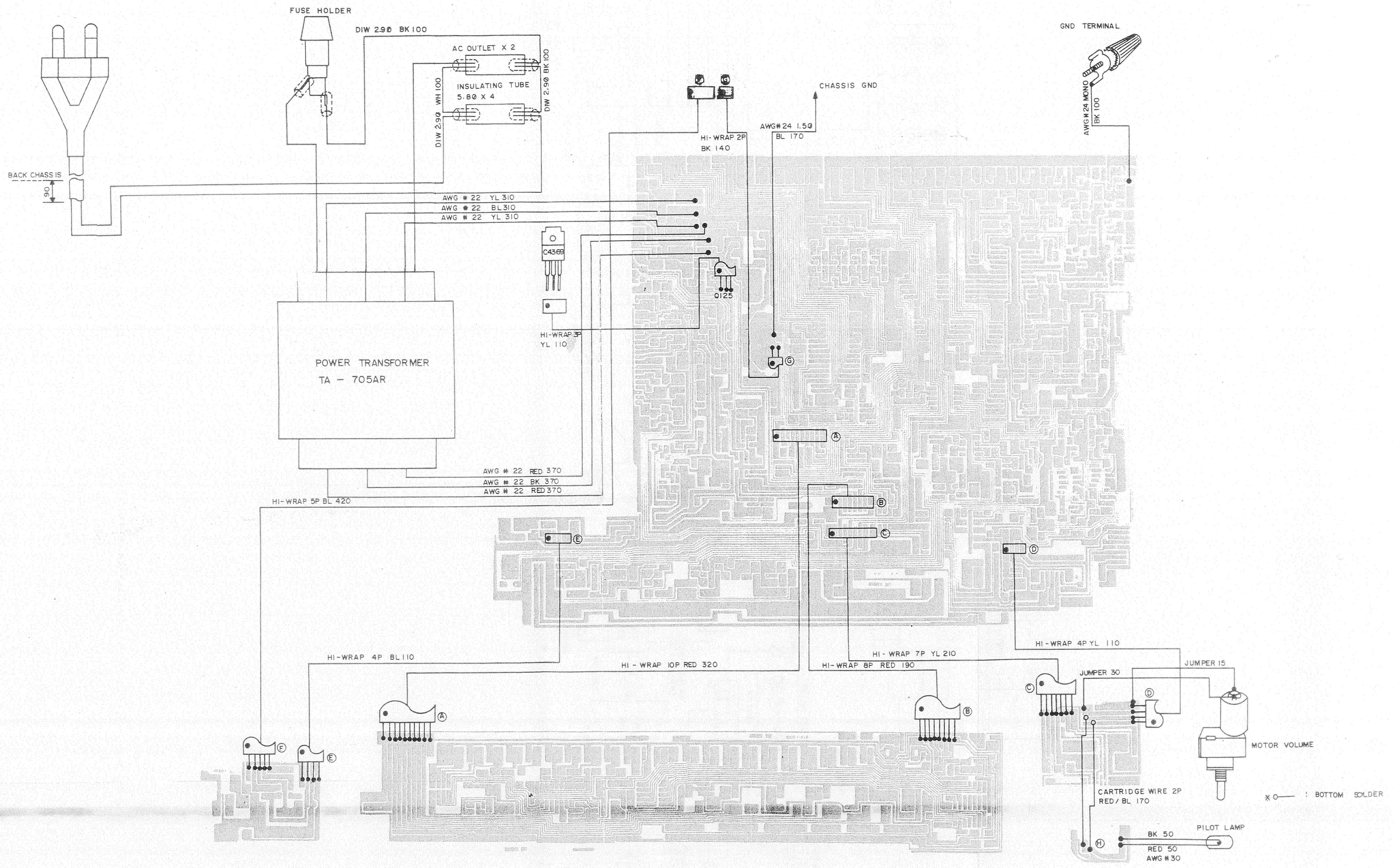
ONDITION

FUSE	PT NO.
250V T1.6A X 2	A85 — 023BB — K
250V T2A	A85 — 023X — V
125V T3.5A	A85 — 023C — U
250V T2A	A85 — 023Z — B


MAIN PCB(TOP) A1A-087
1V-0
DECK J104
TUNER J105
PHONO J106
CD J107
MAIN IN
PRE-OUT
J103
PLAY
REC
J102
VIDEO
DAT
TUNER
J101
CD
PHONO
SPEAKER TERMINAL
J571
J551 HEADPHONE
S551 SPEAKER ON/OFF
VR501
CUT
PL531
D531
S101 LOUDNESS ON/OFF
VR101 BASS
VR102 TREBLE
VR103 BALANCE
S102 SURROUND ON/OFF
LB1640N
BA6209
IC101
IC102
IC103
IC104
IC105
IC106
IC107
IC108
IC109
IC110

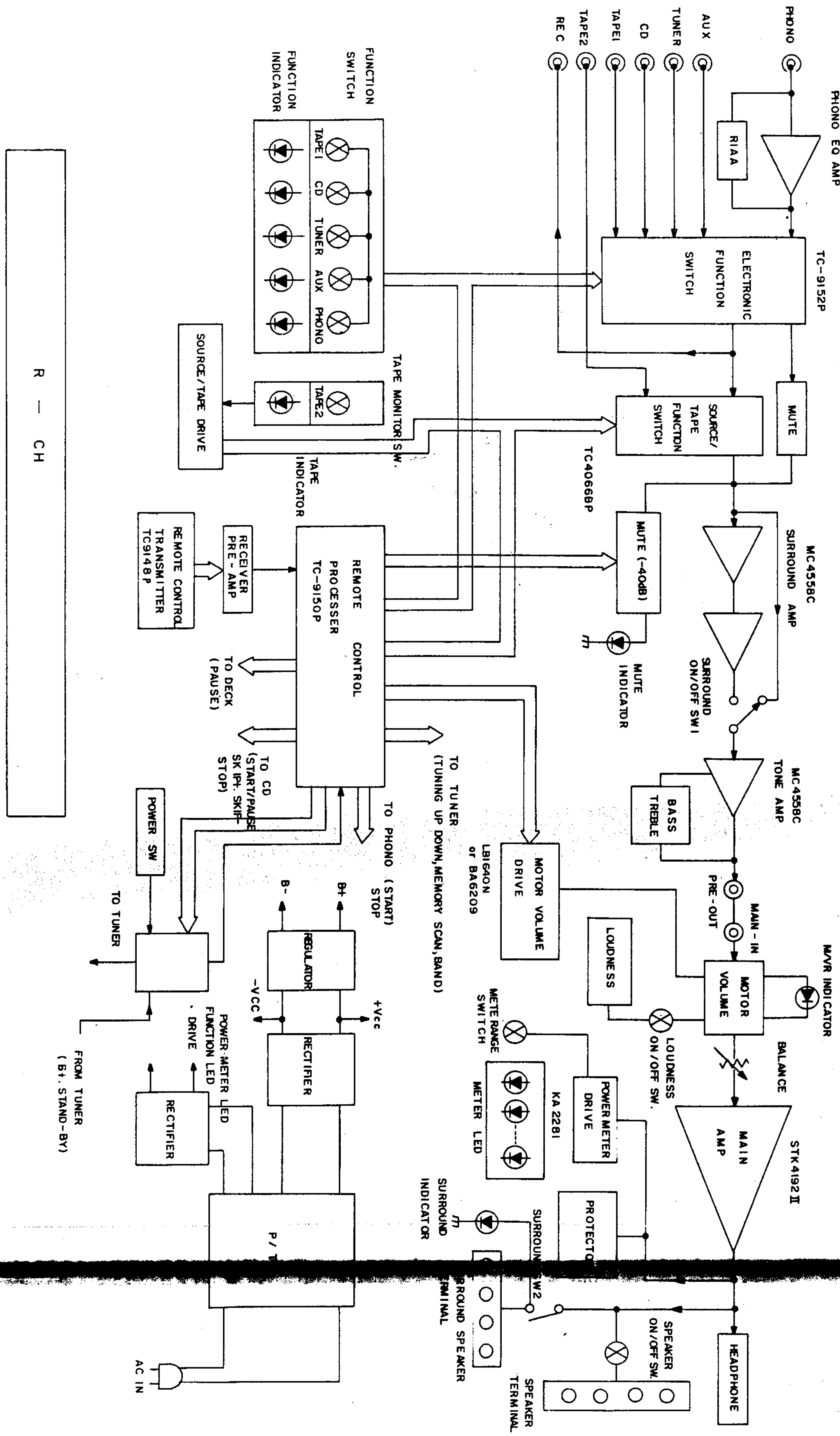
MODEL NO.**TA-705BR**

WIRING DIAGRAM


FUSE HOLDER
DIW 2.90 BK 100
AC OUTLET X 2
DIW 2.90 BK 100
INSULATING TUBE
5.80 X 4
DIW 2.90 WH 100
BACK CHASSIS
90
AWG # 22 YL 310
AWG # 22 BL310
AWG # 22 YL 310
C4369
Q125
HI-WRAP 3P
YL 110
HI-WRAP 2P
BK 140
AWG#24 1.50
BL 170
CHASSIS GND
GND TERMINAL
AWG#24 MONO
BK 100
G
POWER TRANSFORMER
TA — 705AR
AWG # 22 RED 370
AWG # 22 BK 370
AWG # 22 RED370
HI-WRAP 5P BL 420
A
B
C
D
E
HI-WRAP 4P BL110
HI - WRAP 10P RED 320
HI - WRAP 7P YL 210
HI-WRAP 8P RED 190
HI-WRAP 4P YL 110
JUMPER 30
JUMPER 15
F
E
A
B
C
D
MOTOR VOLUME
CARTRIDGE WIRE 2P
RED / BL 170
PILOT LAMP
BK 50
RED 50
AWG # 30
H
※ O— : BOTTOM SOLDER

MODEL NO.**TA-705BR**

BLOCK DIAGRAM

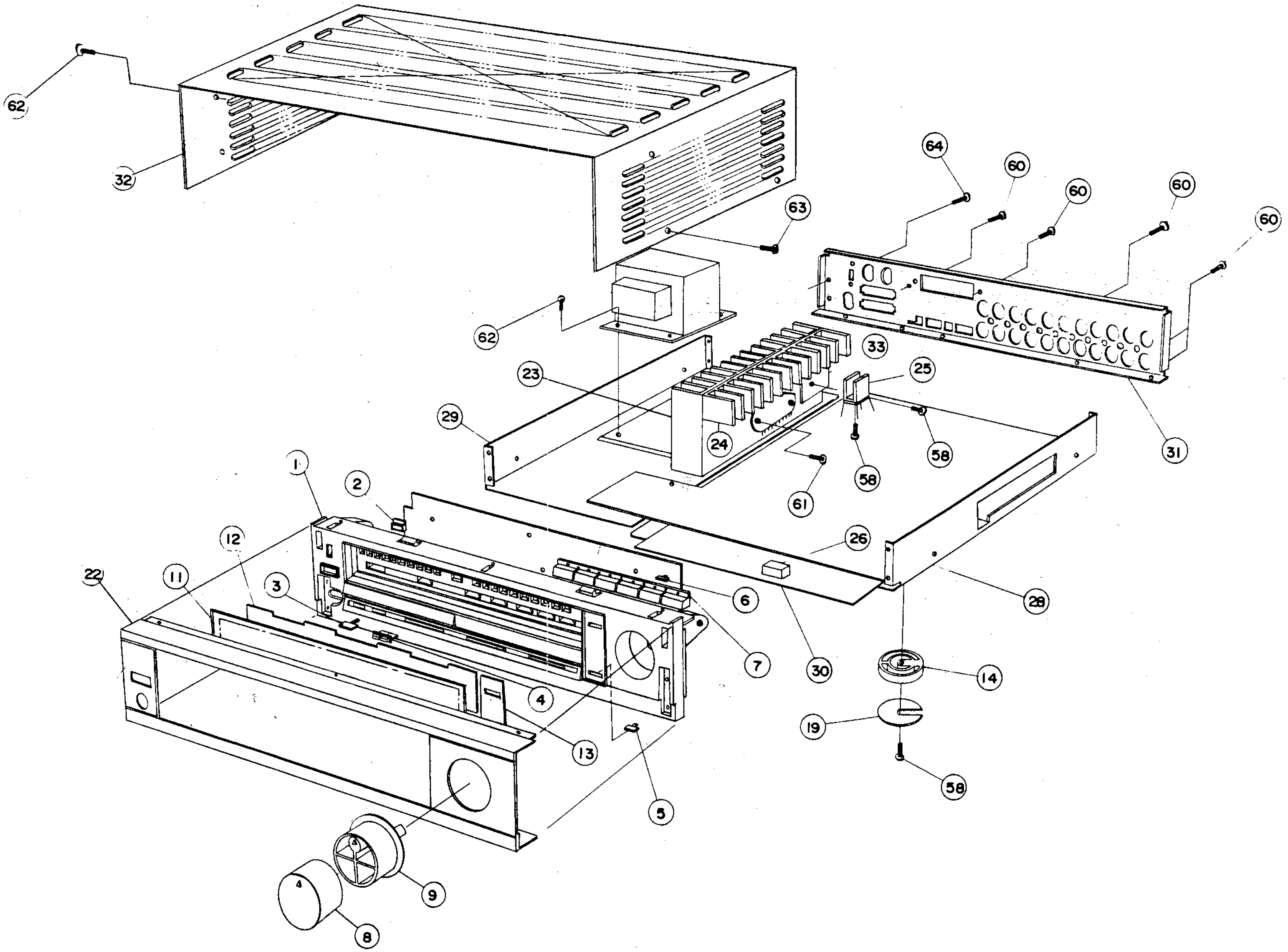

PHONO
AUX
TUNER
CD
TAPE1
TAPE2
REC
MC 4558C
PHONO EQ AMP
RIAA
TC-9152P
ELECTRONIC FUNCTION SWITCH
FUNCTION SWITCH
FUNCTION INDICATOR
TAPE1
CD
TUNER
AUX
PHONO
TAPE2
TAPE MONITOR SW.
TAPE INDICATOR
SOURCE/TAPE DRIVE
SOURCE/TAPE FUNCTION SWITCH
TC4066BP
MUTE
MUTE (-40dB)
MUTE INDICATOR
MC4558C
SURROUND AMP
SURROUND ON/OFF SW1
MC4558C
TONE AMP
BASS
TREBLE
PRE-OUT
MAIN-IN
M/VR INDICATOR
MOTOR VOLUME
LOUDNESS
LOUDNESS ON/OFF SW.
BALANCE
MAIN AMP
STK4192Ⅱ
R — CH
REMOTE CONTROL TRANSMITTER TC9148P
RECEIVER PRE-AMP
REMOTE CONTROL PROCESSER TC-9150P
TO DECK (PAUSE)
TO CD (START/PAUSE SK (P), SKIP STOP)
TO TUNER (TUNING UP DOWN, MEMORY SCAN, BAND)
TO PHONO (START) STOP
MOTOR VOLUME DRIVE
LB1640N or BA6209
POWER SW
TO TUNER
FROM TUNER (B+, STAND-BY)
B-
B+
REGULATOR
-VCC
+Vcc
RECTIFIER
POWER METER LED FUNCTION LED DRIVE
RECTIFIER
P/T
AC IN
METE RANGE SWITCH
POWER METER DRIVE
KA 2281
METER LED
PROTECTOR
SURROUND INDICATOR
SURROUND SW2
SURROUND SPEAKER TERMINAL
SPEAKER ON/OFF SW.
SPEAKER TERMINAL
HEADPHONE

VOLUME

BOTTOM SOLDER

MODEL NO.**TA-705BR**

EXPLODED VIEW


62
32
64
60
60
60
60
63
62
33
25
23
29
24
58
58
31
61
1
2
26
12
22
11
3
6
7
28
30
14
4
13
19
5
58
9
8

PAR

IC
IC
IC
IC
IC
IC

IC
REMOTE CC
TRANSISTO
TRANSISTO
TRANSISTO
LED
LED

LED

LED
BRIDGE REC
SLIDE VOLL
SLIDE VOLL
MOTOR VO
PUSH SWIT
PUSH SWIT
PUSH SWIT
PUSH SWIT
TACT SWIT

HEADPHONI
RCA JACK
SPEAKER T
POWER TRA
AC CORD V
AC OUTLET
MAIN PCB
SUB PCB
FUSE HOLD
FUSE HOLD
FUSE
CHOKE COI
PILOT LAMI
TRANSISTC
TRANSISTC
TRANSISTC

MODEL NO.**TA-705BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	TC-9152P	IC102
IC	PC	1	TC-9150P	IC107
IC	PC	1	TC-4066BP	IC103
IC	PC	1	STK-4192II	IC108
IC	PC	2	KA-2281	IC401, 402
IC	PC	4	MC-4558C	IC101, 104, 105, IC106
IC	PC	1	BA-6209	IC109
REMOTE CONTROL RECEIVER	PC	1	BX-1407	U401
TRANSISTOR	PC	2	2SC4369-Y	Q125, 127
TRANSISTOR	PC	1	2SA1658-Y	Q126
TRANSISTOR	PC	0	KTC2235-Y	Q129
LED	PC	1	SLR54VR-3	D531
LED	PC	21	DLR-IC503T	D403, 404, 405, D406, 407, 408, D409, 410, 411, D412, 413, 414, D415, 416, 417, D418, 419, 420, 421, 422, 443
LED	PC	6	SLV-56MC-3	D437, 438, 439, D440, 441, 442
LED	PC	2	SLV-56VC-3	D444, 445
BRIDGE RECTIFIER DIODE	PC	1	BR-32	D128
SLIDE VOLUME	PC	1	200KW × 1, RS30E1142	VR103
SLIDE VOLUME	PC	2	100KC × 2, RS30E1232	VR101, 102
MOTOR VOLUME W/NUT, WASHER	PC	1	100KB × 2, RK14112MA	VR501
PUSH SWITCH	PC	1	1KEY2C2P, R2100561	S551
PUSH SWITCH (W/O BRACKET)	PC	1	1KEY2C2P, TR2112152	S101
PUSH SWITCH (W/O BRACKET)	PC	1	1KETY6C2P, R2100030	S102
PUSH SWITCH	PC	1	1KEY2C2P, SPH221A	S408
TACT SWITCH	PC	7	IC1P, KHH10902	S401, 402, 403, S404, 405, 406, S407
HEADPHONE JACK W/NUT, WASHER	PC	1	6.3ø, HLJ230601-3020	J551
RCA JACK	PC	3	6PIN, AP6-0034A	J101, 102, 103
SPEAKER TERMINAL	PC	1	8PIN, AU8-2021	J571
POWER TRANSFORMER	PC	1	SAFETY STANDARD	
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
AC OUTLET	PC	2	SAFETY STANDARD	
MAIN PCB	PC	1	A1A-087A-E	
SUB PCB	PC	1	A1A-088	
FUSE HOLDER	PC	1	FEU031-1653	
FUSE HOLDER CAB	PC	1	FEK031-1663 (5 × 20)	
FUSE	PC	1	SAFETY STANDARD	
CHOKE COIL	PC	2	2.2uH, ABK-005	L101, 102
PILOT LAMP	PC	1	14V, 50mA, 4ø	
TRANSISTOR	PC	1	KTC-2240-GR	Q123
TRANSISTOR	PC	1	KTA970-GR	Q124
TRANSISTOR	PC	12	KTC1815-Y	Q101, 102, 103, Q104, 107, 109, Q111, 113, 115, Q117, 119, 120

MODEL NO.**TA-705BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
TRANSISTOR	PC	9	KTA1015-Y	Q108, 110, 112, Q114, 116, 118, Q128, 130, 401,
TRANSISTOR	PC	2	KTA1015-GR	Q121, 122
DIGITAL TRANSISTOR	PC	2	DTA114-YS	Q105, 106
DIGITAL TRANSISTOR	PC	1	DTC114-YS	Q402
RECTIFIER DIODE	PC	2	IN4002	D129, 130
SILICON DIODE	PC	26	IS2473	D103, 104, 105, D106, 107, 108, D109, 110, 111, D112, 113, 114, D115, 116, 117, D120, 121, 123, D127, 131, 446, D447, 448, 449, D450
SILICON DIODE	PC	1	IS2471	D132
ZENER DIODE	PC	1	MTZ5.6B , 1/2W	D134
ZENER DIODE	PC	2	MTZ8.2C, 1/2W	D101, 102
ZENER DIODE	PC	1	MTZ13B, 1/2W	D216
ZENER DIODE	PC	2	MTZ15C, 1/2W	D135, 136
ZENER DIODE	PC	2	MTZ18C, 1/2W	D124, 125
CAPACITOR CERAMIC	PC	1	50V, 0.01uF, K, B	#C142
CAPACITOR CERAMIC	PC	14	50V, 0.022uF, Z, F	#C115, 116, 130, #C132, 137 #C141, 145, 146 #C150, 151, 173 #C174, 183
CAPACITOR CERAMIC	PC	7	50V, 0.1uF, Z, F	#C180, 228, 229, #C230, 231, 224, #C225
CAPACITOR CERAMIC	PC	2	50V, 0.047uF, Z,F	#C134, 226
CAPACITOR CERAMIC	PC	2	50V, 10PF, D, SL	#C195, 196
CAPACITOR CERAMIC	PC	2	50V, 100PF, J, SL	#C156, 157
CAPACITOR CERAMIC	PC	10	50V, 220PF, J, CH	#C117, 118, 119, #C120, 121, 122, #C123, 124, 127, #C128
CAPACITOR CERAMIC	PC	2	50V, 27pF, J, SL	#C160, 161
CAPACITOR CERAMIC	PC	2	50V, 270pF, J, SL	#C187, 188
CAPACITOR CERAMIC	PC	2	50V, 330pF, J, SL	#C189, 190
CAPACITOR CERAMIC	PC	2	50V, 470pF, J, SL	#C101, 102
CAPACITOR E/ALUMINUM	PC	1	25V, 470uF, M-C, 10*12.5	#C216
CAPACITOR E/ALUMINUM	pc	2	50V, 4700uF, M-C, 25.4*41	#C212, 213
CAPACITOR E/ALUMINUM	PC	2	10V, 100uF, M-T, 6.3 × 11	#C105, 106
CAPACITOR E/ALUMINUM	PC	2	10V, 22uF, M-T, 5 × 11	#C191, 192
CAPACITOR E/ALUMINUM	PC	1	10V, 220uF, M-T, 8 × 11.5	#C184
CAPACITOR E/ALUMINUM	PC	3	16V,.10uF, M-T, 5 × 11	#C166, 167, 407
CAPACITOR E/ALUMINUM	PC	2	16V, 22uF, M-T, 5 × 11	#C135, 136
CAPACITOR E/ALUMINUM	PC	2	25V, 10uF, M-T, 5 × 11	#C401, 402
CAPACITOR E/ALUMINUM	PC	3	25V, 100uF, M-T, 8 × 11.5	#C208, 209, 221

MODEL NO.**TA-705BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
CAPACITOR E/ALUMINUM	PC	10	25V, 22uF, M-T, 5 × 11	#C113, 114, 129, #C131, 143, 144, #C148, 149, 172, #C175
CAPACITOR E/ALUMINUM	PC	1	25V, 33uF, M-T, 6.3 × 11	#C215
CAPACITOR E/ALUMINUM	PC	1	25V, 47uF, M-T, 6.3 × 11	#C214
CAPACITOR E/ALUMINUM	PC	3	50V, 10uF, M-T, 5 × 11	#C200, 201, 202
CAPACITOR E/ALUMINUM	PC	1	50V, 100uF, M-T, 10 × 12.5	#C199
CAPACITOR E/ALUMINUM	PC	3	50V, 1.0uF, M-T, 5 × 11	#C158, 159, 207
CAPACITOR E/ALUMINUM	PC	1	50V, 22uF, M-T, 6.3 × 11	#C222
CAPACITOR E/ALUMINUM	PC	4	50V, 2.2uF, M-T, 5 × 11	#C154, 155, 185, #C186
CAPACITOR E/ALUMINUM	PC	3	50V, 3.3uF, M-T, 5 × 11	#C139, 140, 147
CAPACITOR E/ALUMINUM	PC	4	50V, 47uF, M-T, 8 × 11.5	#C193, 194, 210, #C211
CAPACITOR E/ALUMINUM	PC	6	50V, 4.7uF, M-T, 5 × 11	#C103, 104, 111, #C112, 125, 126
CAPACITOR E/ALUMINUM	PC	2	50V, 0.1uF, M-T, 5 × 11	#C403, 404
CAPACITOR E/ALUMINUM	PC	2	50V, 0.33uF, M-T, 5 × 11	#C152, 153
CAPACITOR E/ALUMINUM	PC	2	50V, 0.47uF, M-T, 5 × 11	#C405, 406
CAPACITOR F/POLYESTR	PC	4	50V, 0.01uF, J-T, 6.8 × 13	#C178, 179, 205, #C206
CAPACITOR F/POLYESTR	PC	1	50V, 0.10uF, J-T, 12.1 × 14	#C197
CAPACITOR F/POLYESTR	PC	2	50V, 0.012uF, J-T, 7.0 × 13	#C168, 169
CAPACITOR F/POLYESTR	PC	2	50V, 0.0022uF, J-T, 5.5 × 12.5	#C109, 110
CAPACITOR F/POLYESTR	PC	4	50V, 0.022uF, J-T, 7.4 × 13	#C164, 165, 203, #C204
CAPACITOR F/POLYESTR	PC	4	50V, 0.0027uF, J-T, 5.7 × 12.5	#C162, 163, 176, #C177
CAPACITOR F/POLYESTR	PC	2	50V, 0.033uF, J-T, 8.1 × 13	#C501, 502
CAPACITOR F/POLYESTR	PC	3	50V, 0.047uF, J-T, 8.9 × 13.5	#C133, 219, 220
CAPACITOR F/POLYESTR	PC	2	50V, 0.0068uF, J-T, 5.8 × 12.5	#C107, 108
CAPACITOR F/POLYESTR	PC	2	50V, 0.068uF, J-T, 9.9 × 14	#C170, 171
CAPACITOR F/POLYESTR	PC	2	100V, 0.047uF, J-T, 8.9 × 13.5	#C217, 218
CAPACITOR STYROL	PC	2	100V, 1000pF, J	#C181, 182
RESISTOR-CARBON FILM	PC	8	1/5W, 100ohm, 5%	#R113, 114, 166, #R167, 176, 177, #R180, 181
RESISTOR-CARBON FILM	PC	3	1/5W, 1Kohm, 5%	#R248, 249, 277
RESISTOR CARBON FILM	PC	3	1/5W, 10Kohm, 5%	#R170, 215, 243
RESISTOR CARBON FILM	PC	14	1/5W, 100Kohm, 5%	#R103, 104, 105, #R106, 146, 158, #R159, 160, 161, #R164, 165, 178, #R179, 246
RESISTOR CARBON FILM	PC	2	1/5W, 12Kohm, 5%	#R154, 155
RESISTOR CARBON FILM	PC	2	1/5W, 1.5Kohm, 5%	#R192, 193
RESISTOR CARBON FILM	PC	4	1/5W, 220ohm, 5%	#R115, 116, 135, #R136
RESISTOR CARBON FILM	PC	10	1/5W, 22Kohm, 5%	#R172, 173, 184, #R185, 222, 226, #R230, 234, 238, #R247

MODEL NO.**TA-705BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	5	1/5W, 220Kohm, 5%	#R117, 118, 186, #R187, 434
RESISTOR CARBON FILM	PC	1	1/5W, 2.7Kohm, 5%	#R171
RESISTOR CARBON FILM	PC	2	1/5W, 27Kohm, 5%	#R196, 197
RESISTOR CARBON FILM	PC	1	1/5W, 270Kohm, 5%	#R145
RESISTOR CARBON FILM	PC	7	1/5W, 3.3Kohm, 5%	#R217, 218, 223, #R227, 231, 235, #R239
RESISTOR CARBON FILM	PC	2	1/5W, 33Kohm, 5%	#R111, 112
RESISTOR CARBON FILM	PC	2	1/5W, 390ohm, 5%	#R168, 169
RESISTOR CARBON FILM	PC	6	1/5W, 3.9Kohm, 5%	#R174, 175, 209, #R210, 213, 214
RESISTOR CARBON FILM	PC	7	1/5W, 39Kohm, 5%	#R200, 201, 211, #R212, 242, 258, #R259
RESISTOR CARBON FILM	PC	2	1/5W, 390Kohm, 5%	#R109, 110
RESISTOR CARBON FILM	PC	10	1/5W, 470ohm, 5%	#R119, 120, 123, #R124, 127, 128, #R131, 132, 139, #R140
RESISTOR CARBON FILM	PC	6	1/5W, 4.7Kohm, 5%	#R202, 203, 204, #R205, 207, 219
RESISTOR CARBON FILM	PC	7	1/5W, 47Kohm, 5%	#R206, 224, 229, #R233, 237, 241, #R302
RESISTOR CARBON FILM	PC	3	1/5W, 470Kohm, 5%	#R147, 156, 157
RESISTOR CARBON FILM	PC	6	1/5W, 560ohm, 5%	#R216, 220, 252, #R253, 503, 504
RESISTOR CARBON FILM	PC	3	1/5W, 5.6Kohm, 5%	#R190, 191, 276
RESISTOR CARBON FILM	PC	24	1/5W, 56Kohm, 5%	#R121, 122, 125, #R126, 129, 130, #R133, 134, 137, #R138, 141, 142, #R150, 151, 152, #R153, 162, 163, #R182, 183, 250, #R251, 303, 304
RESISTOR CARBON FILM	PC	2	1/5W, 560Kohm, 5%	#R198, 199
RESISTOR CARBON FILM	PC	2	1/5W, 680ohm, 5%	#R107, 108
RESISTOR CARBON FILM	PC	5	1/5W, 6.8Kohm, 5%	#R225, 228, 232, #R236, 240
RESISTOR CARBON FILM	PC	3	1/5W, 68Kohm, 5%	#R424, 425, 426
RESISTOR CARBON FILM	PC	4	1/5W, 8.2Kohm, 5%	#R101, 102, 501, #R502
RESISTOR CARBON FILM	PC	2	1/5W, 82Kohm, 5%	#R188, 189
RESISTOR CARBON FILM	PC	2	1/5W, 820Kohm, 5%	#R194, 195
RESISTOR CARBON FILM	PC	6	1/4W, 1Kohm, 5%	#R149, 437, 438, #R439, 440, 441
RESISTOR CARBON FILM	PC	4	1/4W, 10Kohm, 5%	#R244, 280, 431, #R432
RESISTOR CARBON FILM	PC	2	1/4W, 1.2Kohm, 5%	#R300, 436
RESISTOR CARBON FILM	PC	1	1/4W, 150ohm, 5%	#R144
RESISTOR CARBON FILM	PC	2	1/4W, 1.5Kohm, 5%	#R268, 269

MODEL NO.**TA-705BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	2	1/4W, 180ohm, 5%	#R245, 442
RESISTOR CARBON FILM	PC	1	1/4W, 1.8Kohm, 5%	#R531
RESISTOR CARBON FILM	PC	1	1/4W, 18Kohm, 5%	#R443
RESISTOR CARBON FILM	PC	2	1/4W, 220ohm, 5%	#R264, 265
RESISTOR CARBON FILM	PC	2	1/4W, 220Kohm, 5%	#R281, 433
RESISTOR CARBON FILM	PC	1	1/4W, 270ohm, 5%	#R444
RESISTOR CARBON FILM	PC	1	1/4W, 27Kohm, 5%	#R445
RESISTOR CARBON FILM	PC	2	1/4W, 330ohm, 5%	#R143, 292
RESISTOR CARBON FILM	PC	1	1/4W, 39Kohm, 5%	#R294
RESISTOR CARBON FILM	PC	2	1/4W, 47ohm, 5%	#R401, 402
RESISTOR CARBON FILM	PC	2	1/4W, 470ohm, 5%	#R221, 301
RESISTOR CARBON FILM	PC	2	1/4W, 47Kohm, 5%	#R446, 447
RESISTOR CARBON FILM	PC	3	1/4W, 560ohm, 5%	#R148, 288, 290
RESISTOR CARBON FILM	PC	2	1/5W, 56Kohm, 5%	#R429, 430
RESISTOR CARBON FILM	PC	1	1/4W, 5.6Mohm, 5%	#R293
RESISTOR CARBON FILM	PC	2	1/4W, 680ohm, 5%	#R208, 296
RESISTOR CARBON FILM	PC	1	1/4W, 6.8Kohm, 5%	#R305
RESISTOR CARBON FILM	PC	8	1/4W, 68Kohm, 5%	#R270, 271, 278, #R279, 282, 423, #R427, 428
RESISTOR CARBON FILM	PC	22	1/4W, 820ohm, 5%	#R287, 289, 403, #R404, 405, 406, #R407, 408, 409, #R410, 411, 412, #R413, 414, 415, #R416, 417, 418, #R419, 420
RESISTOR CARBON FILM	PC	1	1/2W, 1.8Kohm, 5%	#R295
RESISTOR CARBON FILM	PC	4	1/2W, 3.3Kohm, 5%	#R254, 255, 256, #R257
RESISTOR CEMENT	PC	2	3W. 0.22ohm, 5%	#R266, 267
RESISTOR FUSIBLE	PC	2	1/4W, 100ohm, 5%	#R260, 261
RESISTOR JUMPER WIRE	M	11.6400	60mm-TX123	#/194
RESISTOR METAL OXIDE	PC	4	1W, 10ohm, 5%	#R272, 273, 274, #R275
RESISTOR METAL OXIDE	PC	2	1W, 1Kohm, 5%	#R262, 263
RESISTOR METAL OXIDE	PC	2	1W, 220ohm, 5%	#R551, 552
RESISTOR METAL OXIDE	PC	2	1W, 3.3Kohm, 5%	#R285, 286
RESISTOR METAL OXIDE	PC	1	2W, 100ohm, 5%	#R283
RESISTOR METAL OXIDE	PC	1	2W, 330ohm, 5%	#R284

MODEL NO.**TA-705BR**

MECHANICAL PARTS

PARTS MANE	UNIT	Q'TY	DESCRIPTION	REMARKS
PANEL SUB	PC	1		
KNOB POWER TACT	PC	1		
KNOB SELECTOR	PC	2		
KNOB SLIDE	PC	3		
KNOB SURROUND	PC	1		
KNOB PUSH S/W (A)	pc	1		
KNOB TACT S/W	PC	1		
KNOB V/R CAP	PC	1		
KNOB V/R CORE	PC	1		
BUSH	PC	1		
WINDOW PANEL	PC	1		
DECO LED	PC	1		
PLATE FUNCTION	PC	1		
FOOT	PC	2	(NON-H/STAMPING)	
FOOT	PC	2	(GOLD-H/STAMPING)	
CUSHION FOOT	PC	4		
CUSHION PCB	PC	2	20 × 20 × 8t	
PANEL FRONT	PC	1		
RADIATOR L	PC	1		
RADIATOR S	PC	1		
RADITOR DIODE	PC	1		
CABINET STEEL	PC	1		
CHASSIS SIDE R	PC	1		
CHASSIS SIDE L	PC	1		
CHASSIS MAIN	PC	1		
CHASSIS BACK	PC	1		
BRACKET RADIATOR R	PC	1		
BRACKET IC L	PC	1		
BRACKET 1 KEY S/W	PC	1		
JACK CONNECT	PC	2	(PITCH:18 mm)	
CABLE TIE	PC	6		
FILTER LEVEL	PC	1		
FILTER FUNCTION	PC	1		
WASHER FIBER	PC	1		
CUSHION R.L	PC	2		
GIFT BOX	PC	1		
POLY BAG (S)	PC	1		
POLY BAG (I)	PC	2		
CORD BUSH	PC	1		
GND TERMINAL	PC	1		

MODEL NO.**TA-705BR**

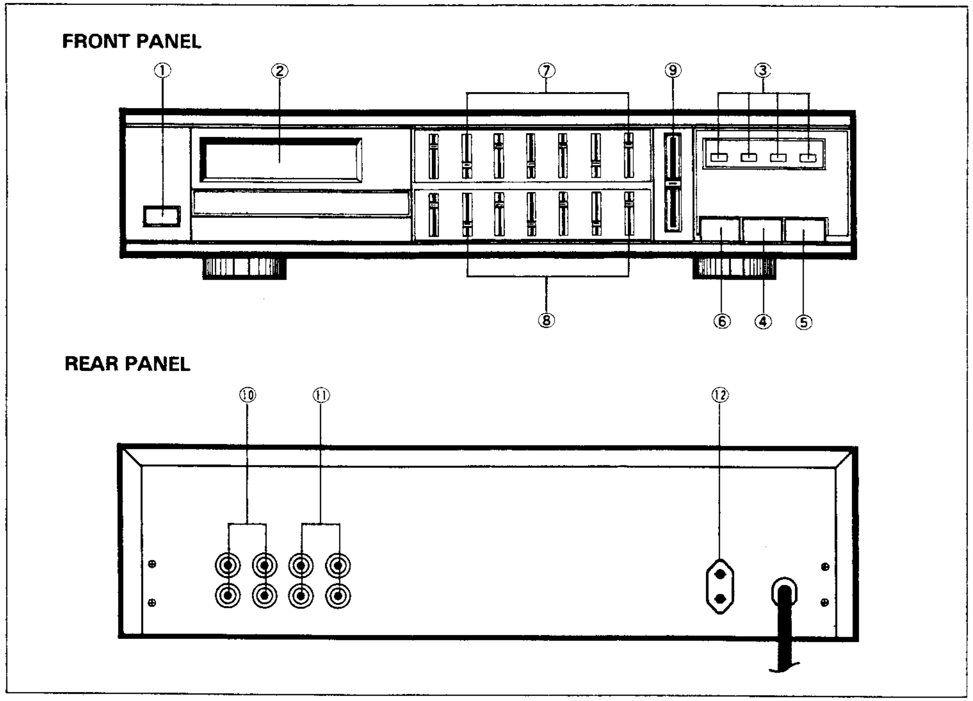
MECHANICAL PARTS

PARTS NEME	UNIT	Q'TY	DESCRIPTION	REMARKS
REMOCON ASS'Y	PC	1	(TRM-718BR)	
SILICAGEL	PC	1		
INST MANUAL	PC	1		
WARRANTY CARD	PC	1		
LABEL INSPECT	PC	1		
LABEL SERIAL	PC	2		
SCREW TAPPING	PC	36	BH T2T ø3 × 8 Fe-ZB	
SCREW TAPPING	PC	16	BH T2T ø3 × 8 Fe-Zy	
SCREW TAPPING	PC	8	FH T2T ø3 × 8 Fe-ZB	
SCREW TAPPING	PC	1	BH T2Tø3 × 12 Fe-Zy	
SCREW TAPPING	PC	4	BH T3T ø4 × 6 Fe-Zy	
SCREW TAPPING	PC	6	BH T2T ø4 × 10 Fe-ZB	
SCREW MACHINE	PC	2	PH M3 × 8 Fe-Zy	

MODEL NO.

TE-707SG

GRAPHIC EQUALIZER



FRONT PANEL FEATURES

1. **Power Switch**
   Depress this switch to turn the POWER on and depress again to turn POWER OFF.
2. **Spectrum Analyzer**
   The tuned frequency on each band are displayed here in digital form.
3. **LED Indicator**
   This indicator displays TAPE, SOURCE, REC, EQ-ON.
4. **Equalizer Recording Switch (EQ REC)**
   Depress this switch (▂ ON) for recording through the equalizer circuit. Turn it (▂ OFF) for recording without the use of equalizer circuit system.
5. **Equalizer Switch (EQ)**
   Set this switch (▂ ON) to activate the graphic equalizer effect.
6. **Monitor Switch**
   SOURCE: Line in signal is selected.
   TAPE : Tape play signal is selected.
7. **8. Equalizer Knob**
   When equalizer switch 5 is turned on,

   (64Hz)
   Moving this slide control down reduces very low frequency rumble, or compensates a warped disc. Moving the slide control up emphasizes the very low frequencies.

   (160Hz)
   This range supports the lower end of the music and slide controls overall depth. The slide control may be moved down to eliminate "boomy bass" caused by room acoustics.

   (400Hz)
   This range is the foundation of music including both instruments and the human voice, and controls the overall power of the sound. As the slide control is moved up, midrange sounds ecome more forward.

   (1KHz)
   This range affects the presence of the music (depth of tone), and is especially effective when playing back vocals. Moving the slide control up and down will cause the vocals to more "up front" or more reserved.

   (2.5KHz)
   This is the frequency range where the human ear is most sensitive. Boosting the level slightly will add brilliance, crispness, etc., to instruments.
   Cutting the level slightly makes for comfortable listening.

   (6.3KHz)
   This is the high frequency range. Strings, horns, etc., will be emphasized to give a slight difference in tone glaze and quality. Moving the control down reduces over-emphasized consonants in vocals and objectionable tape hiss. Moving the slide control up, on the other hand, improves the sharpness of such instruments as cymbals.

   (16KHz)
   Super-high frequency range. This affects higher harmonics rather than the fundamental tones of the instruments themselves, and has an effect on the sensitivity and atmosphere of the music.
   Moving side control up adds a delicate, fresh sound to cymbals, triangles, etc.
9. **Spectrum Analyzer (S.A) Level Knob**
   Slide this knob to adjust spectrum analyzer level.

REAR PANEL CONNECTIONS

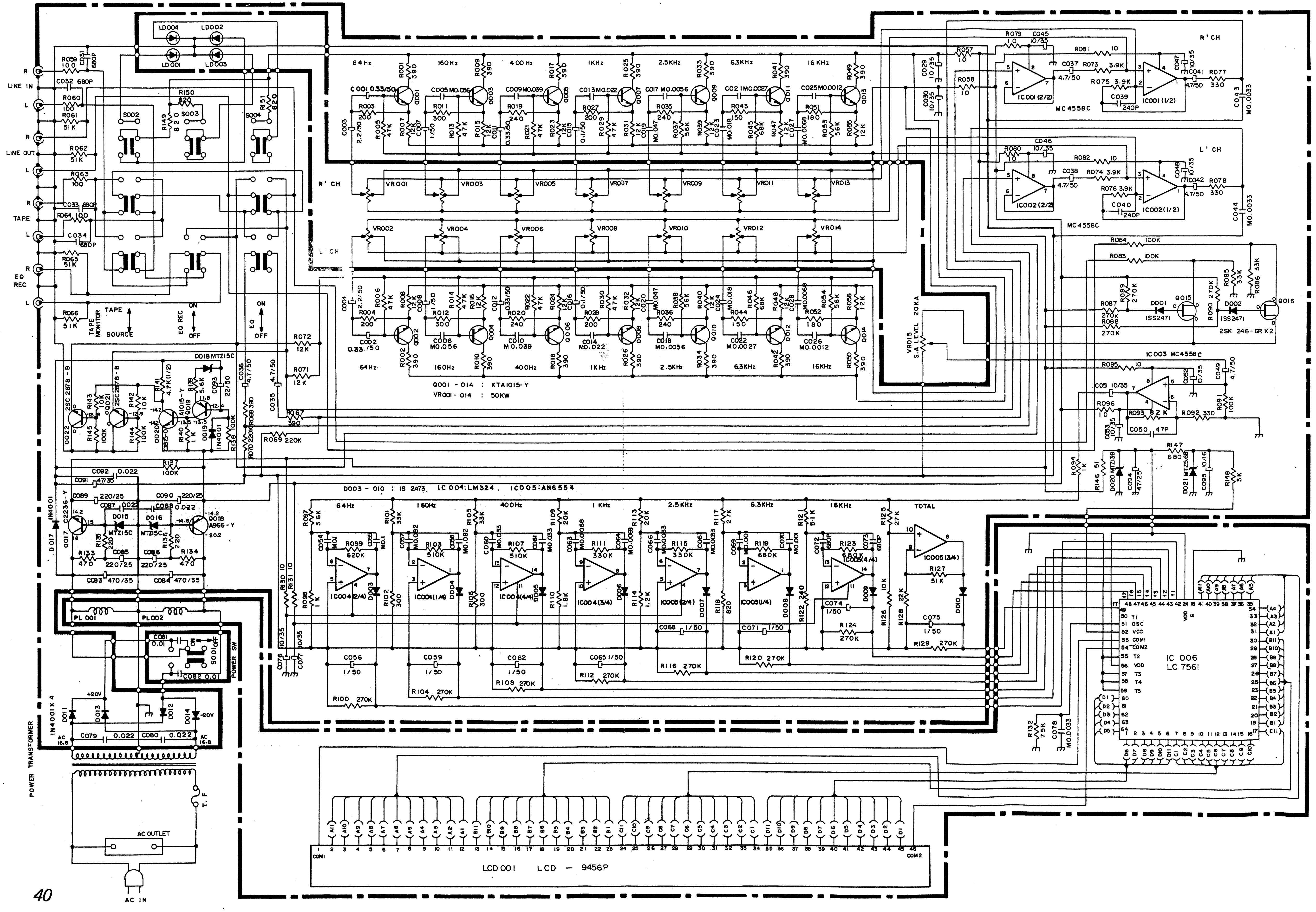
10. **Line Terminal**
    IN : This is a input terminal.
    OUT: This is a output terminal.
11. **Tape Terminal**
    REC : Connect to the tape deck input terminals (Line in, Rec).
    PLAY: Connect to the tape deck output terminals (Line out, Play).
12. **AC Outlet**
    Unswitched can be supplied to other components with a total power consumption of up to 150 W.

SPECIFICATIONS

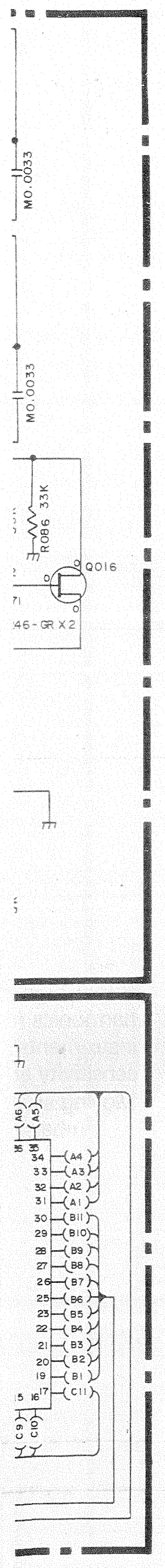
Formation	: R Channel + L Channel Graphic Equalizer
Display System	: 7 Bands Spectrum Analyzer
Frequency Response	: 10 Hz – 70 KHz
Equalizer Control Range	: ± 10 dB
Frequency Range	: 64 Hz 160 Hz 400 Hz 1 KHz 2.5 KHz 6.3 KHz 16 KHz
Total Harmonic Distortion	: 0.03%
Signal to Noise Ratio	: 100 dB (Jis a Filter)
Input Sensitivity Impedance	Line In-150 mV/47 Kohm
Output/Impedance	: Line Out – 150 mV/ 600 ohm Rec Out – 150 mV/ 600 ohm
Power Consumption	: 12 W
Dimensions	: 420(W) × 92(H) × 253(D)
Weight	: 2.8 Kg

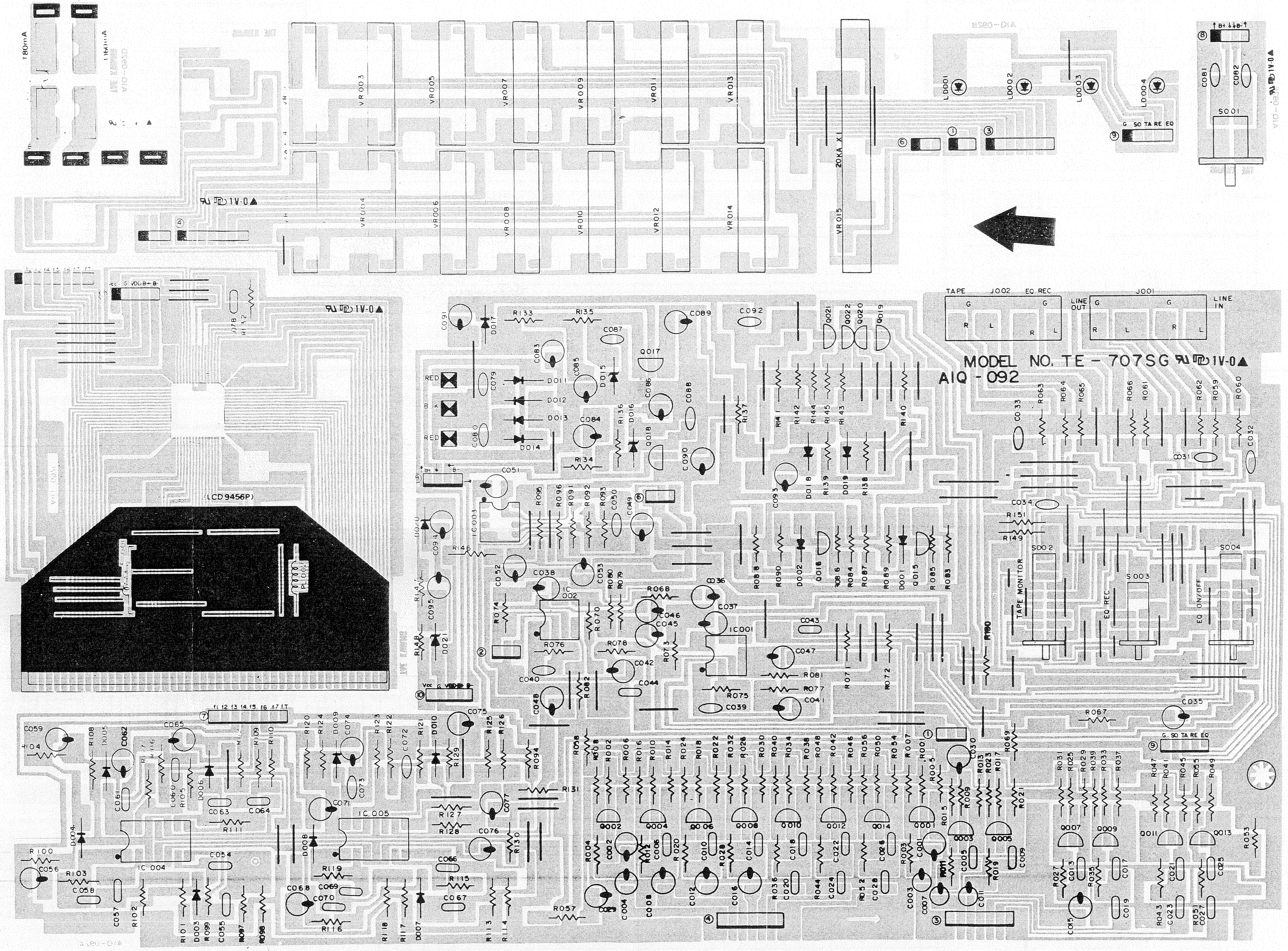
MODEL NO. **TE-707SG**

SCHEMATIC DIAGRAM


LINE IN
LINE OUT
TAPE
EQ REC
R
L
TAPE MONITOR
TAPE
SOURCE
EQ REC ON OFF
EQ ON OFF
S002
S003
S004
LD001
LD002
LD003
LD004
R'CH
L'CH
64Hz
160Hz
400Hz
1KHz
2.5KHz
6.3KHz
16KHz
VR001
VR003
VR005
VR007
VR009
VR011
VR013
VR002
VR004
VR006
VR008
VR010
VR012
VR014
Q001 - 014 : KTA1015-Y
VR001 - 014 : 50KW
VR015 S.A LEVEL 20KA
IC001 (1/2)
IC001 (2/2)
IC002 (1/2)
IC002 (2/2)
MC4558C
IC003 MC4558C
Q015
Q016
2SK 246-GR X 2
D001
D002
1SS2471
D003 - 010 : 1S 2473, IC004:LM324, IC005:AN6554
IC004 (1/4)
IC004 (2/4)
IC004 (3/4)
IC004 (4/4)
IC005 (1/4)
IC005 (2/4)
IC005 (3/4)
IC005 (4/4)
TOTAL
IC 006
LC 7561
LCD001 LCD - 9456P
COM1
COM2
Q017 C2236-Y
Q018 A966-Y
Q019 A1015-Y
Q020
Q021 2SC2878-B
Q022 2SC2878-B
D018 MTZ15C
D015 MTZ15C
D016 MTZ15C
D017 1N4001
D020 MTZ13B
D021 MTZ5.6B
PL001
PL002
S001 POWER SW
ON
OFF
1N4001 X 4
D011
D012
D013
D014
+20V
-20V
AC 16.8
POWER TRANSFORMER
T. F
AC OUTLET
AC IN

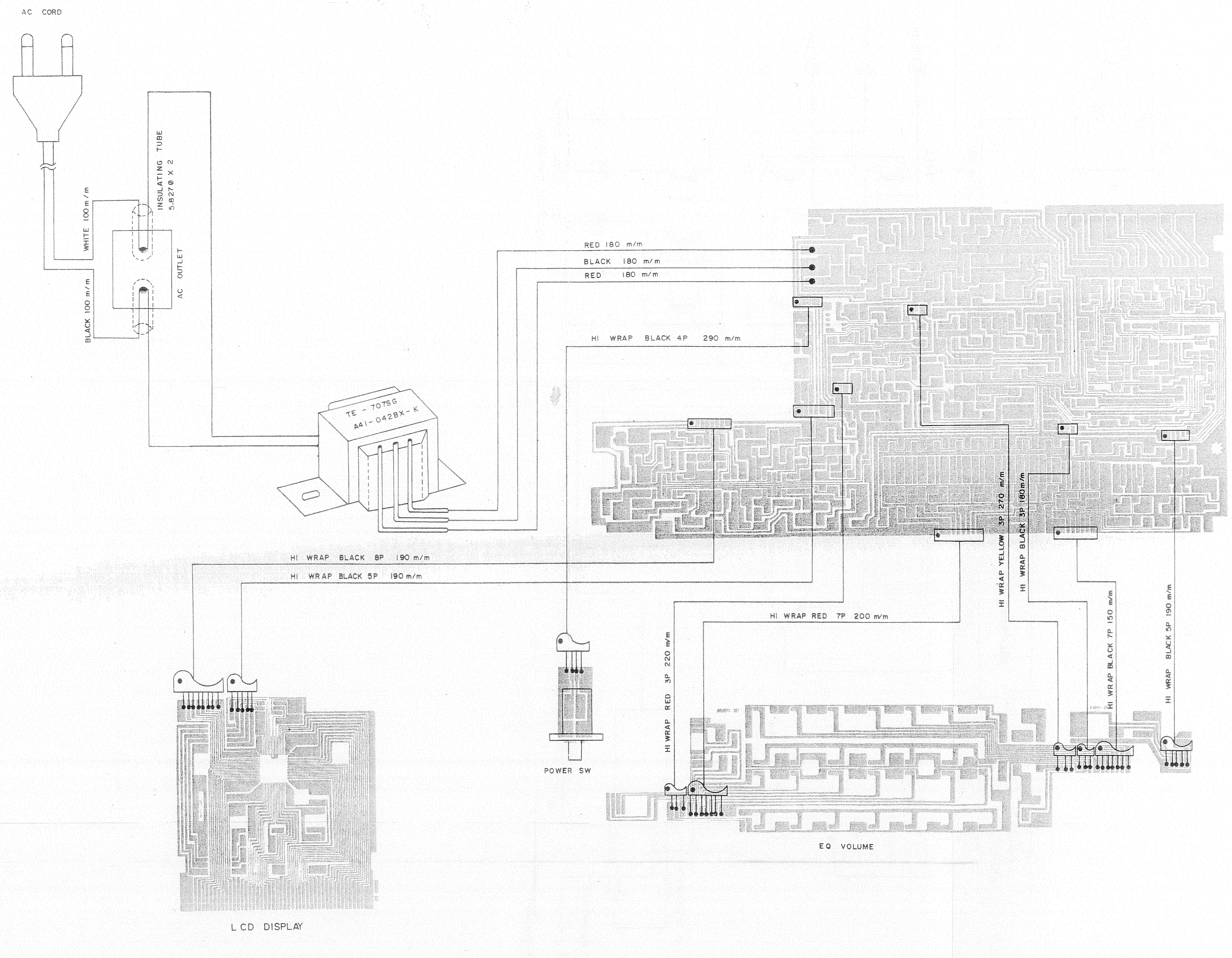
PCB LAYOUT


MO.0033
MO.0033
R086 33K
Q016
46-GR X2
A6
A5
A4
A3
A2
A1
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1
C11
C9
C8

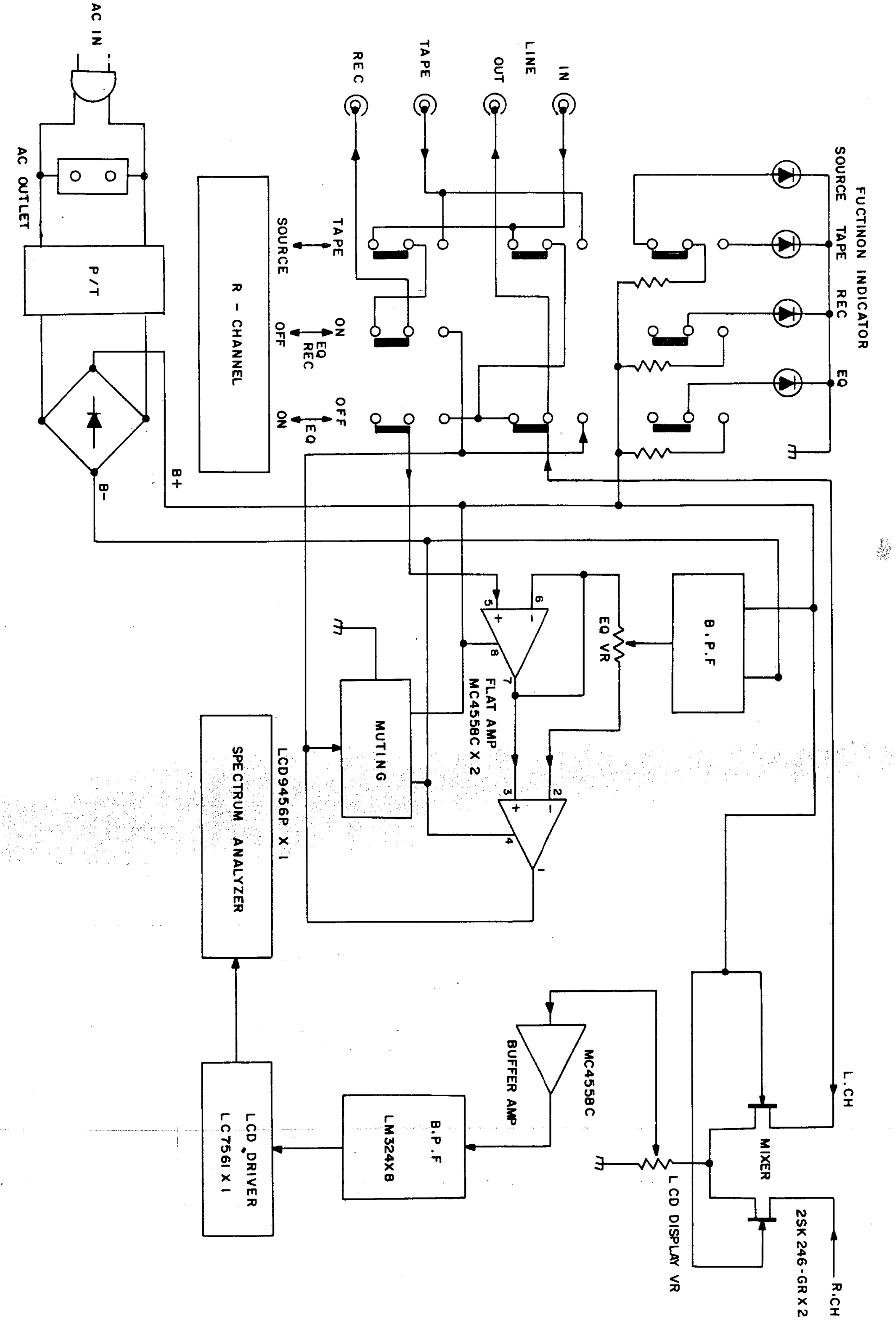

180mA
VR003
VR005
VR007
VR009
VR011
VR013
VR014
VR006
VR008
VR010
VR012
VR015
20KA X1
LD001
LD002
LD003
LD004
C081
C082
S001
G SO TA RE EQ
1V-0▲
TAPE
J002
EQ REC
J001
LINE OUT
LINE IN
G
R
L
MODEL NO. TE - 707SG 1V-0▲
AIQ - 092
LCD9456P
P1001
IC001
IC002
IC003
IC004
IC005
S002
S003
S004
TAPE MONITOR
EQ REC
EQ ON/OFF
RED
Q001
Q002
Q003
Q004
Q005
Q006
Q007
Q008
Q009
Q010
Q011
Q012
Q013
Q014
Q015
Q016
Q017
Q018
Q019
Q020
Q021
Q022
D001
D002
D003
D004
D005
D006
D007
D008
D009
D010
D011
D012
D013
D014
D015
D016
D017
D018
D019
D020
D021
C031
C032
C033
C034
C035
C036
C037
C038
C039
C040
C041
C042
C043
C044
C045
C046
C047
C048
C051
C052
C053
C054
C055
C056
C057
C058
C059
C060
C061
C062
C063
C064
C065
C066
C067
C068
C069
C070
C071
C072
C073
C074
C075
C076
C077
C079
C080
C083
C084
C085
C086
C087
C088
C089
C090
C091
C092
C093
C094
C095
R067
R068
R070
R072
R073
R074
R075
R076
R077
R078
R080
R081
R082
R094
R100
R102
R103
R104
R111
R115
R116
R119
R127
R128
R130
R131
R133
R134
R135
R146
R149
R151
①
②
③
④
⑥
⑦
⑧
⑨
⑩

MODEL NO. **TE-707SG**

WIRING DIAGRAM

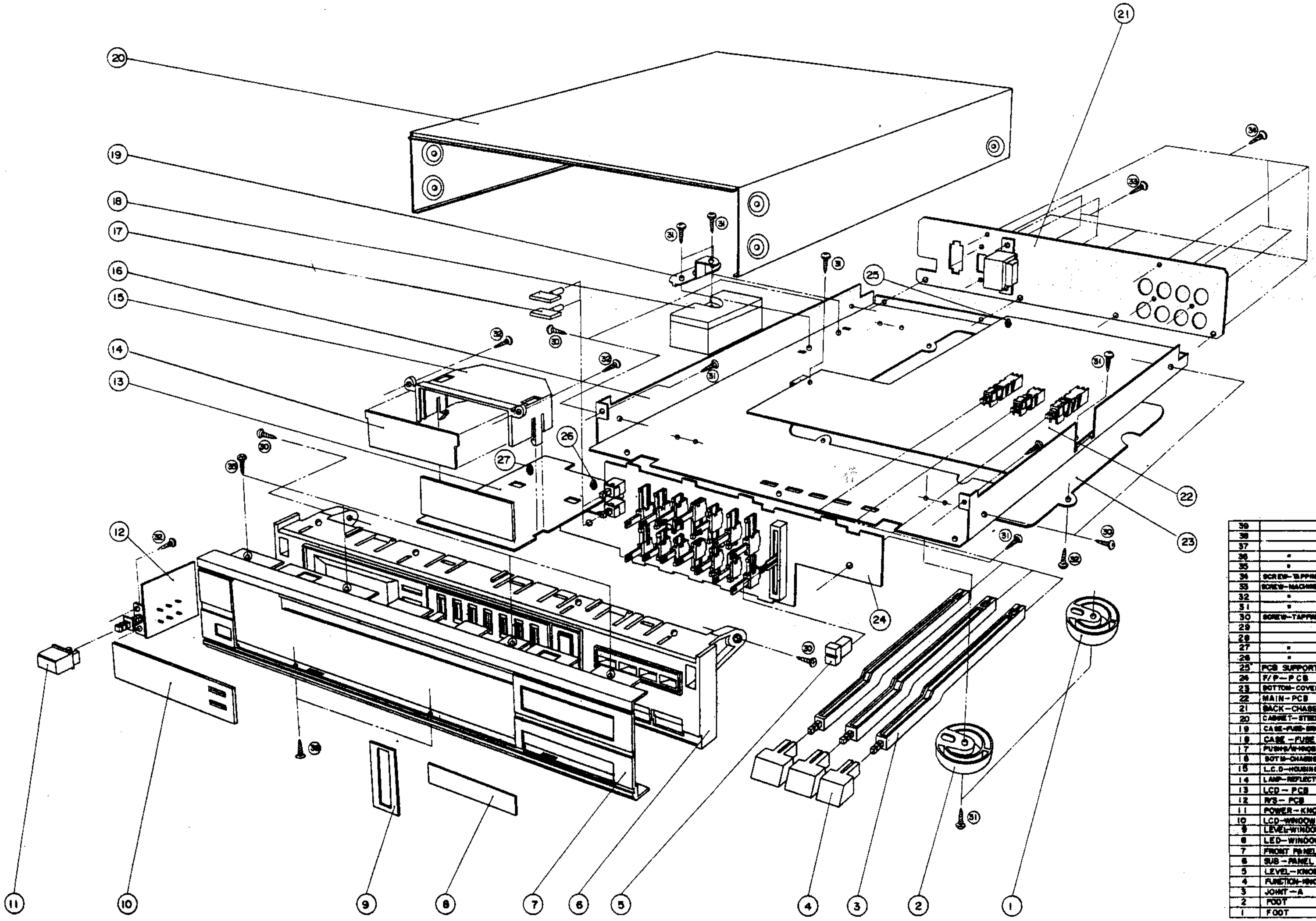

AC CORD
INSULATING TUBE
5.8270 X 2
WHITE 100 m/m
BLACK 100 m/m
AC OUTLET
TE - 707SG
A41-042BX-K
RED 180 m/m
BLACK 180 m/m
RED 180 m/m
HI WRAP BLACK 4P 290 m/m
HI WRAP BLACK 8P 190 m/m
HI WRAP BLACK 5P 190 m/m
HI WRAP YELLOW 3P 270 m/m
HI WRAP BLACK 3P 180m/m
HI WRAP RED 7P 200 m/m
HI WRAP RED 3P 220 m/m
HI WRAP BLACK 7P 150 m/m
HI WRAP BLACK 5P 190 m/m
POWER SW
EQ VOLUME
LCD DISPLAY

BLOCK DIAGRAM


AC IN
AC OUTLET
P/T
B+
B-
R - CHANNEL
TAPE
SOURCE
ON
OFF
EQ
REC
OFF
ON
EQ
REC
TAPE
LINE
OUT
IN
FUCTINON INDICATOR
SOURCE
TAPE
REC
EQ
B.P.F
EQ VR
5
6
8
7
FLAT AMP
MC4558C X 2
3
2
4
1
MUTING
LCD9456P X 1
SPECTRUM ANALYZER
MC4558C
BUFFER AMP
B.P.F
LM324X8
LCD DRIVER
LC7561 X 1
LCD DISPLAY VR
MIXER
2SK 246-GR X 2
L.CH
R.CH

MODEL NO.**TE-707SG**

EXPLODED VIEW



39					
38					
37					
36	〃	3	Fe-Zb	FHT2T Ø3×8	
35	〃	4	Fe-ZY	FHT2T Ø3×8	
34	SCREW-TAPPING	8	Fe-Zb	BHT2T Ø3×8	
33	SCREW-MACHINE	4	Fe-Zb	BH M3×8	
32	〃	6	〃	BH2T Ø3×6	
31	〃	10	Fe-ZY	BHT2T Ø3×8	
30	SCREW-TAPPING	6	Fe-Zb	BHT2T Ø4×8	
29					
28					
27	〃	10	〃	DABC-32R	
26	〃	10	〃	DASS-19N	
25	PCB SUPPORT	1	NYLON66	DABS-10R	
24	F/P-PCB	1			A2ME-0051
23	BOTTOM-COVER	1	SECC		A3MF-0218
22	MAIN-PCB	1			A2ME-0051
21	BACK-CHASSIS	1	〃		A2ME-0132
20	CABINET-STEEL	1	〃		A1M-0065
19	CASE-FUSE-BKT	1	SECC		A4MC-0697
18	CASE-FUSE	1	GP		A3MG-0053
17	PUSH-S/W-KNOB	2	ABS		A4MF-0393
16	BOTM-CHASSIS	1	SECC		A2MC-0133
15	L.C.D-HOUSING	1	PC		A2MG-0011
14	LAMP-REFLECTOR	1	PVC-SHEET		A4MG-0468
13	LCD-PCB	1			〃
12	R/S-PCB	1			AEME-0051
11	POWER-KNOB	1	ABS		A4MF-0298
10	LCD-WINDOW	1	〃		A3MF-0184
9	LEVEL-WINDOW	1	〃		A4MF-0324
8	LED-WINDOW	1	PVC-SHEET		A4MF-0328
7	FRONT PANEL	1	AL		A4MF-0096
6	SUB-PANEL	1	〃		A1M-0093
5	LEVEL-KNOB	1	〃		A3MF-0183
4	FUNCTION-KNOB	3	〃		A4MF-0325
3	JOINT-A	3	ABS		A4MG-0573
2	FOOT	2	〃		A4MG-0338
1	FOOT	2	HIPS		A4MG-0339-

PAI

IC
IC
IC
IC
TRANSIST
FET
LCD DISPL
PILOT LAM
LED

POWER TR
PUSH SWI
PUSH SWI
PUSH SWI
SLIDE VOL
SLIDE VOL

SLIDE VOL
AC CORD
AC OUTLE
PCB
RCA JACK
SHORT JA
RCA CORD
TRANSIST
TRANSIST

TRANSIST
TRANSIST
ZENER DIO
ZENER DIO
ZENER DIO
SILICON DI

SILICON DI
RECTIFIER

CAPACITO
CAPACITO

CAPACITO

MODEL NO. **TE-707SG**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	AN6554	IC005
IC	PC	1	LC7561	IC006
IC	PC	1	LM324	IC004
IC	PC	3	MC4558C	IC001, 002, 003
TRANSISTOR	PC	2	2SC2878-B	Q021, 022
FET	PC	2	2SK246-GR	Q015, 016
LCD DISPLAY	PC	1	LCD9456P	LCD001
PILOT LAMP	PC	2	20V, 80mA, 5ø	PL001, 002
LED	PC	4	DLY-IC503T	LD001, 002, 003 LD004
POWER TRANS	PC	1	SAFETY STANDARD	
PUSH SWITCH	PC	1	2C2P, 1KEY, TR2112207	S001
PUSH SWITCH	PC	1	4C2P, 1KEY, R2320569	S003
PUSH SWITCH	PC	2	6C2P, 1KEY, R2321617	S002, 004
SLIDE VOLUME	PC	1	20KA, SINGLE, S4518PC	VR015
SLIDE VOLUME	PC	14	50KW, SINGLE, RS15H11	VR001, 002, 003, VR004, 005, 006, VR007, 008, 009, VR010, 011, 012, VR013, 014
SLIDE VOLUME	PC	1		
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
AC OUTLET	PC	1	SAFETY STANDARD	
PCB	PC	1	A1Q-092A-E	
RCA JACK	PC	2	AP4-0032A	
SHORT JACK	PC	2	RCA PLUG W/O CORD	
RCA CORD	PC	2	2P, RCA DOUBLE SIDE 0.6m	
TRANSISTOR	PC	1	KTA1015-Y	Q019
TRANSISTOR	PC	15	KTC1815-O	Q020, 001, 002, Q003, 004, 005, Q006, 007, 008, Q009, 010, 011, Q012, 013, 014
TRANSISTOR	PC	1	KTA966-Y	Q018
TRANSISTOR	PC	1	KTC2236-Y	Q017
ZENER DIODE	PC	1	MTZ5.6B 1/2W	D021
ZENER DIODE	PC	1	MTZ13B, 1/2W	D020
ZENER DIODE	PC	3	MTZ15C, 1/2W	D015, 016, 018
SILICON DIODE	PC	8	IS2473	D003, 004, 005, D006, 007, 008, D009, 010
SILICON DIODE	PC	2	IS2471	D001, 002
RECTIFIER DIODE	PC	6	IN4001	D011, 012, 013, D014, 017, 019
CAPACITOR CERAMIC	PC		50V, 0.01uF, K, B	#C081, 082
CAPACITOR CERAMIC	PC	5	50V, 0.022uF, Z, F	#C079, 080, 087, #C088, 092
CAPACITOR CERAMIC	PC	2	50V, 240pF, J, SL	#C039, 040

MODEL NO. **TE-707SG**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
CAPACITOR CERAMIC	PC	1	50V, 47pF, J, SL	#C050
CAPACITOR CERAMIC	PC	6	50V, 680pF, J, SL	#C031, 032, 033, #C034, 073
CAPACITOR E/ALUMINUM	PC	2	35V, 470uF, M-S, 10 × 20	#C083, 084
CAPACITOR E/ALUMINUM	PC	1	16V, 10uF, M-T, 5 × 11	#C095
CAPACITOR E/ALUMINUM	PC	4	25V, 220uF, M-T, 8 × 11.5	#C085, 086, 089, #C090
CAPACITOR E/ALUMINUM	PC	1	25V, 47uF, M-T, 6.3 × 11	#C094
CAPACITOR E/ALUMINUM	PC	11	35V, 10uF, M-T, 5 × 11	#C029, 030, 045, #C046, 047, 048, #C051, 052, 053, #C076, 077
CAPACITOR E/ALUMINUM	PC	1	35V, 47uF, M-T, 8 × 11.5	#C091
CAPACITOR E/ALUMINUM	PC	10	50V, 1.0uF, M-T, 5 × 11	#C007, 008, 056, #C059, 062, 065, #R068, 071, 074, #C075
CAPACITOR E/ALUMINUM	PC	1	50V, 22uF, M-T, 6.3 × 11	#C093
CAPACITOR E/ALUMINUM	PC	2	50V, 2.2uF, M-T, 5 × 11	#C003, 004
CAPACITOR E/ALUMINUM	PC	7	50V, 4.7uF, M-T, 5 × 11	#C035, 036, 037, #C038, 041, 042, #C049
CAPACITOR E/ALUMINUM	PC	2	50V, 0.1uF, M-T, 5 × 11	#C015, 016
CAPACITOR E/ALUMINUM	PC	4	50V, 0.33uF, M-T, 5 × 11	#C001, 002, 011, #C012
CAPACITOR F/POLYESTR	PC	2	50V, 0.001uF, J-T, 5.3 × 12.5	#C069, 070
CAPACITOR F/POLYESTR	PC	2	50V, 0.10uF, J-T, 12.1 × 14	#C054, 055
CAPACITOR F/POLYESTR	PC	2	50V, 0.0012uF, J-T, 5.4 × 12.5	#C025, 026
CAPACITOR F/POLYESTR	PC	2	50V, 0.18uF, J-T, 7.3 × 13	#C023, 024
CAPACITOR F/POLYESTR	PC	2	50V, 0.022uF, J-T, 7.4 × 13	#C013, 014
CAPACITOR F/POLYESTR	PC	2	50V, 0.0027uF, J-T, 5.7 × 12.5	#C021, 022
CAPACITOR F/POLYESTR	PC	5	50V, 0.033uF, J-T, 8.1 × 13	#C043, 044, 066, #C067, 078
CAPACITOR F/POLYESTR	PC	2	50V, 0.039uF, J-T, 8.5 × 13.5	#C009, 010
CAPACITOR F/POLYESTR	PC	2	50V, 0.047uF, J-T, 8.9 × 13.5	#C019, 020
CAPACITOR F/POLYESTR	PC	2	50V, 0.0056uF, J-T, 5.8 × 12.5	#C017, 018
CAPACITOR F/POLYESTR	PC	2	50V, 0.056uF, J-T, 9.5 × 14	#C005, 006
CAPACITOR F/POLYESTR	PC	4	50V, 0.0068uF, J-T, 5.8 × 12.5	#C027, 028, 063, #C064
CAPACITOR F/POLYESTR	PC	2	50V, 0.082uF, J-T, 10.6 × 14	#C057, 058
RESISTOR CARBON FILM	PC	10	1/4W, 10ohm, 5%	#R057, 058, 079, #R080, 081, 082, #R095, 096, 130, #R131
RESISTOR CARBON FILM	PC	4	1/4W, 100ohm, 5%	#R059, 060, 063, #R064
RESISTOR CARBON FILM	PC	3	1/4W, 1Kohm, 5%	#R094, 098, 140
RESISTOR CARBON FILM	PC	3	1/4W, 10Kohm, 5%	#R126, 142, 143
RESISTOR CARBON FILM	PC	7	1/4W, 100Kohm, 5%	#R083, 084, 091, #R137, 138, 144, #R145

MODEL NO. **TE-707SG**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	1	1/4W, 1.2Kohm, 5%	#R114
RESISTOR CARBON FILM	PC	16	1/4W, 12Kohm, 5%	#R007, 008, 015, #R016, 023, 024, #R031, 032, 039, #R040, 047, 048, #R055, 056, 071, #R072
RESISTOR CARBON FILM	PC	2	1/4W, 150ohm, 5%	#R043, 044
RESISTOR CARBON FILM	PC	2	1/4W, 180ohm, 5%	#R051, 052
RESISTOR CARBON FILM	PC	1	1/4W, 1.8Kohm, 5%	#R110
RESISTOR CARBON FILM	PC	4	1/4W, 200ohm, 5%	#R003, 004, 027, #R028
RESISTOR CARBON FILM	PC	2	1/4W, 20Kohm, 5%	#R109, 113
RESISTOR CARBON FILM	PC	2	1/4W, 220ohm, 5%	#R135, 136
RESISTOR CARBON FILM	PC	1	1/4W, 22Kohm, 5%	#R128
RESISTOR CARBON FILM	PC	2	1/4W, 220Kohm, 5%	#R069, 070
RESISTOR CARBON FILM	PC	5	1/4W, 240ohm, 5%	#R019, 020, 035, #R036, 122
RESISTOR CARBON FILM	PC	2	1/4W, 27Kohm, 5%	#R117, 125,
RESISTOR CARBON FILM	PC	12	1/4W, 270Kohm, 5%	#R087, 088, 089, #R090, 100, 104, #R108, 112, 116, #R120, 124, 129
RESISTOR CARBON FILM	PC	4	1/4W, 300ohm, 5%	#R011, 012, 102, #R106
RESISTOR CARBON FILM	PC	1	1/4W, 3Kohm, 5%	#R148
RESISTOR CARBON FILM	PC	3	1/4w, 330ohm, 5%	#R077, 078, 092
RESISTOR CARBON FILM	PC	4	1/4W, 33Kohm, 5%	#R085, 086, 101, #R105
RESISTOR CARBON FILM	PC	2	1/4W, 330Kohm, 5%	#R111, 115
RESISTOR CARBON FILM	PC	1		#R097
RESISTOR CARBON FILM	PC	16	1/4W, 390ohm, 5%	#R001, 002, 009. #R010, 017, 018, #R025, 026, 033, #R034, 041, 042, #R049, 050, 067, #R068
RESISTOR CARBON FILM	PC	4	1/4W, 3.9Kohm, 5%	#R073, 074, 075, #R076
RESISTOR CARBON FILM	PC	4	1/4W, 470ohm, 5%	#R133, 133, 134, #R134
RESISTOR CARBON FILM	PC	16	1/4W, 47Kohm, 5%	#R005, 005, 006, #R013, 013, 014, #R014, 021, 021, #R022, 022, 029, #R029, 030, 030
RESISTOR CARBON FILM	PC	2	1/4W, 51ohm, 5%	#R146, 146
RESISTOR CARBON FILM	PC	2	1/4W, 5.1Kohm, 5%	#R121, 121
RESISTOR CARBON FILM	PC	10	1/4W, 51Kohm, 5%	#R061, 061, 062, #R062, 065, 065, #R065, 066, 066, #R127, 127

MODEL NO. **TE-707SG**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	4	1/4W, 510Kohm, 5%	#R103, 103, 107, #R107
RESISTOR CARBON FILM	PC	2	1/4W, 5.6Kohm, 5%	#R139, 139
RESISTOR CARBON FILM	PC	8	1/4W, 56Kohm, 5%	#R037, 037, 038, #R038, 053, 053, #R054, 054
RESISTOR CARBON FILM	PC	2	1/4W, 620Kohm, 5%	#R099, 099
RESISTOR CARBON FILM	PC	2	1/4W, 680ohm, 5%	#R147, 147
RESISTOR CARBON FILM	PC	4	1/4W, 68Kohm, 5%	#R045, 045, 046, #R046
RESISTOR CARBON FILM	PC	4	1/4W, 680Kohm, 5%	#R119, 119, 123, #R123
RESISTOR CARBON FILM	PC	2	1/4W, 75Kohm, 5%	#R132, 132
RESISTOR CARBON FILM	PC	8	1/4W, 820ohm, 5%	#R118, 118, 149, #R149, 150, 150, #R151, 151
RESISTOR CARBON FILM	PC	2	1/4W, 82Kohm, 5%	#R093, 093
RESISTOR CARBON FILM	PC	2	1/2W, 4.7Kohm, 5%	#R141, 141
RESISTOR JUMPER WIRE	M	12.6000	60mm-TX123	#/105, #/105

MODEL NO. **TE-707SG**

MECHANICAL PARTS

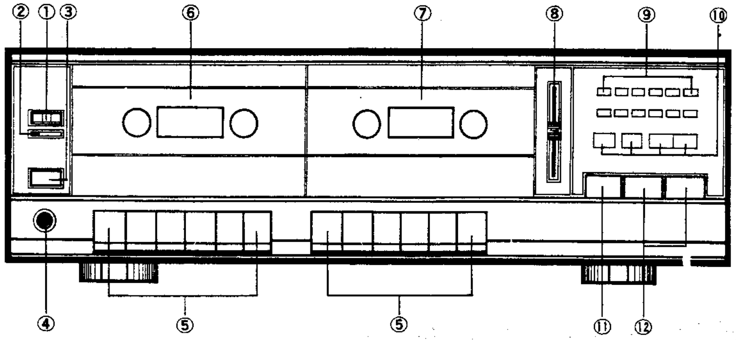
PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
PANEL SUB	PC	1		
KNOB FUNCTION	PC	3		
KNOB LEVEL	PC	1		
KNOB POWER	PC	1		
JOINT A	PC	3		
HOUSING LCD	PC	1		
HOUSING LED	PC	1		
FILTER LED	PC	1		
PANEL FRONT	PC	1		
WINDOW LED	PC	1		
WINDOW LEVEL	PC	1		
WINDOW LCD	PC	1		
REFLECTOR LAMP	PC	1		
CABINET STEEL	PC	1		
CHASSIS BACK	PC	1		
CHASSIS BOTTOM	PC	1		
BOTTOM COVER	PC	1		
FOOT	PC	4		
FOOT	PC	2 GOLD HOT STAMPING		
CUSHION	PC	4		
CORD BUSH	PC	1		
PCB SUPPORT	PC	1		
PCB SUPPORT	PC	2		
PCB CUSHION	PC	3	30 × 20 × 10t	
GIFT BOX	PC	1		
STYRO FOAM	PC	2		
POLY BAG (SET)	PC	1	750 × 370 × 0.05t	
CABLE TIE	PC	5		
SILICAGEL	PC	1		
WARRANTY CARD	PC	1		
CHECK SHEET	PC	1		
INSPECTION LABEL	PC	1		
SERIAL LABEL	PC	1		
A/S GUIDENCE	PC	1		
POLY BAG (I)	PC	1		
INST-MANUAL	PC	1		
RECTANGLE WGSHER B	PC	2		
SCREW TAPPING	PC	4	BH T2T ø3 ×6 Fe-Zy	
SCREW TAPPING	PC	19	BH T2T ø3 ×8 Fe-Zy	
SCREW TAPPING	PC	8	BH T2T ø3 ×8 Fe-ZB	
SCREW TAPPING	PC	4	FH T2T ø3 ×8 Fe-Zy	
SCREW TAPPING	PC	3	FH T2T ø3 × 8 Fe-ZB	
SCREW MACHINE	PC	2	BH M4 × 8 Fe-ZB	
SCREW TAPPING	PC	4	BH T2T ø4 × 8 Fe-ZB	

MODEL NO.

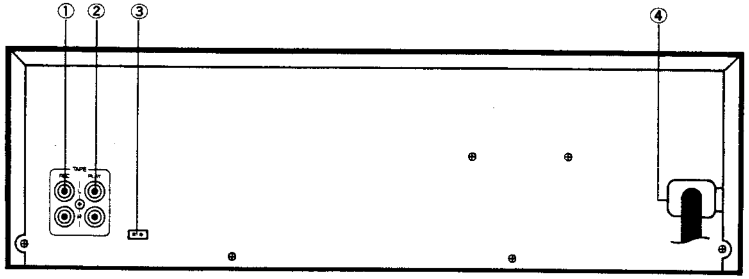
TD-703DMS

STEREO DOUBLE CASSETTE DECK

FRONT PANEL



REAR PANEL



FRONT PANEL FEATURES

1. **Tape Counter (Tape A, Record and Play only)**
   Can be used for easy reference and indexing of selections.
2. **Reset Button (Tape A, Record and Playback only)**
   Press to reset the TAPE COUNTER to "000".
3. **Power Switch**
   When pressed in, this supplies AC power to the unit.
4. **Microphone Jack**
   Inserting a microphone plug into this jack.
5. **Tape Transport Controls**
   Pause Button (❚❚):
   To temporarily stop a tape in PLAY or RECORD mode.
   Stop Button (■):
   To stop a tape in any mode.
   FF Button(►►):
   For rapid advancement to any desired point on the tape.
   Play Button (►):
   To play back a tape.
   Rewind Button (◄◄):
   To rapidly rewind a tape.
   Record Button (●) (Tape A only):
   Press to make a tape recording.
   (Tape A only) Since this unit is equipped with a single-touch recording feature, there is no need to press the PLAY button at the same time.
   Auto Reverse Mode Button (Tape B only):
   When Mode button is at off position (■⊂⊃), Auto reverse fuction is continued permanently. When Mode button is at on position (▬⊃), Auto reverse fuction works one time.
   Direction Button
   To listen to the sound of the other side without opening the door, press this button.
6. **Cassette Compartment A**
   Tape A, Recording and Playback.
7. **Cassette Compartment B**
   Tape B, Playback only.
8. **Record Level Control**
   This control adjust the recording input level.
9. **Peak Level Display**
   The LEFT and RIGHT LED PEAK LEVEL display accurately show the signal strength.
   Set the REC LEVEL controls so that the PEAK LEVEL display does not travel into the orange zone of the scale. Occasional flashes are acceptable, but if the signal is allowed to consistently illuminate the orange zone of the display, audible distorltion may occur.
10. **LED Indicator**
    THis indicator displays RECORD, REMOTE PAUSE, TAPE DIRECTIONS (Tape B only).
    Record:
    Lights up on the LED indicator when Tape A is recording.
    Remote Pause:
    Lights up on the LED indicator when Tape A or Tape B are in the remote pause mode.
    Tape Directions (Tape B only):
    Lights up on the LED Indicator in according to tape directions.
11. **Dolby NR Button**
    This model is equipped with Dolby B NR.
12. **Dubbing Switch (Normal/Hi-Dubbing)**
    For details, please refer to the instructions.

REAR PANEL CONNECTIONS

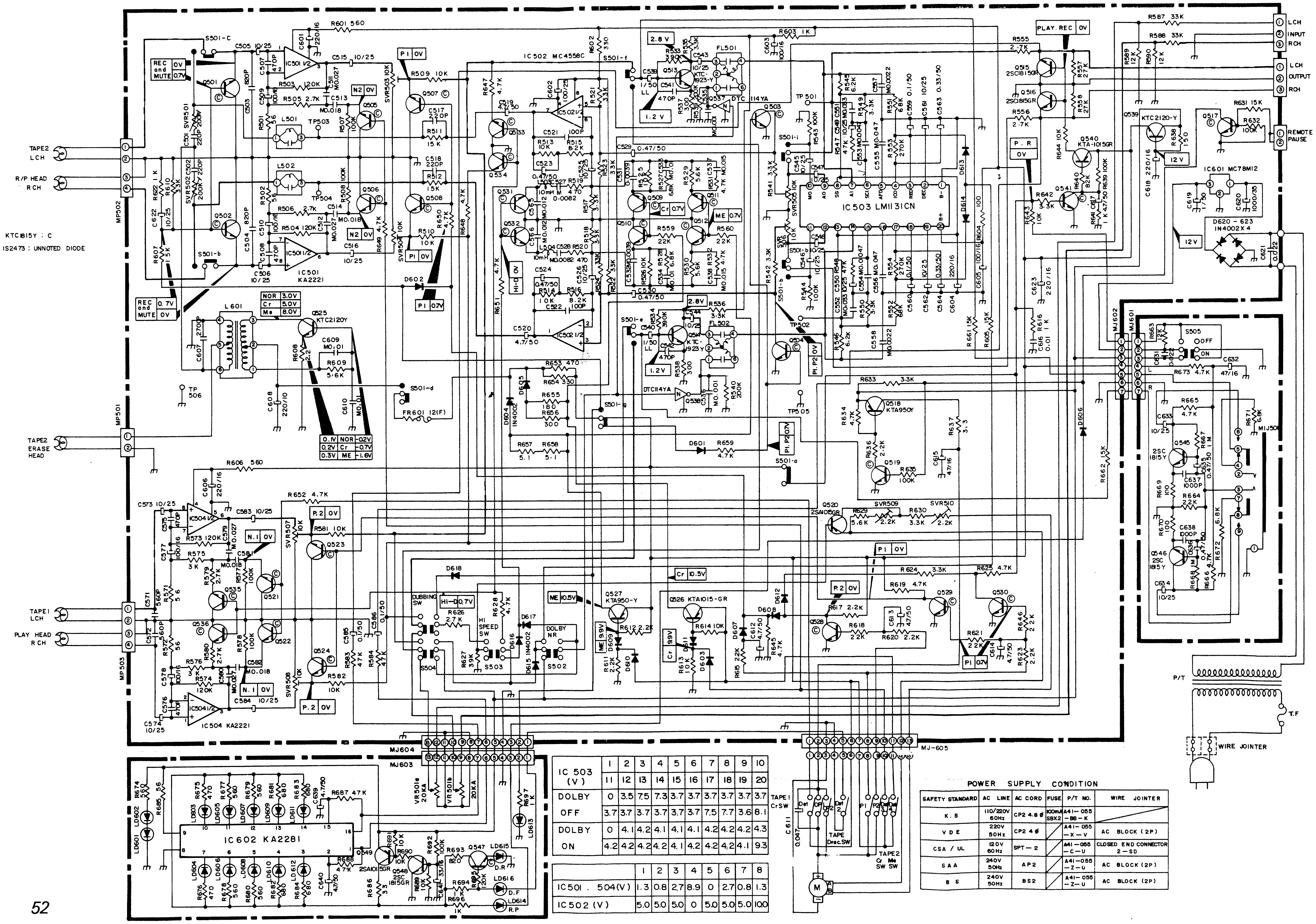
1. **Line Input Jack (Record)**
   Should be connected to the tape output jacks of your amplifier or receiver. Note that "L" is white and "R" is red.
2. **Line output Jack (Play)**
   Should be connected to the tape Monitor inputs of your amplifier or receiver. Note that "L" is white and "R" is red.
3. **Remote Pause**
   If there is a Remote Pause jack on the pre-main amplifier or receiver, connect these two pin jacks.
4. **AC Power Cord**
   With the POWER switch set to the OFF position, plug the AC line cord into an AC outlet providing the proper voltage.

SPECIFICATIONS

Head	: Deck B 1 Head System Playback: Super hard metal alloy Deck A, 2 Head System REC/Play: Super Hard Metal Alloy Erase: Dual Cap Ferrite
Drive System	: Soft Mecha Touch
Motor	: DC 12V, Motor (1 Motor)
Tape Speed	: 4.75 Cm/sec.
Wow Flotter	: 0.08%
Frequency Response	: Metal 40 Hz – 15 KHz CrO2 40 Hz – 14 KHz Normal 40 Hz – 13 KHz
Signal to Noise Ratio	: 64 dB (Dolby On)
T.H.D.	: 1% (CrO2)
Bias Frequency	: 85 KHz
Input Sensitivity	: Mic 1.5 mV Line 90 mV
Power Supply Voltage	: Safety Standard
Power Consumption	: 15 W
Demension	: 420(W) × 120(H) × 256(D) mm
Weight	: 3.8 Kg

MODEL NO. **TD-703DMS**

SCHEMATIC DIAGRAM


TAPE2 LCH
R/P HEAD RCH
TAPE2 ERASE HEAD
TAPE1 LCH
PLAY HEAD RCH
MP501
MP502
MP503
S501-C
S501-b
S501-d
S501-e
S501-f
S501-g
S501-a
REC and MUTE 0V
REC and MUTE 0.7V
IC501 KA2221
IC502 MC4558C
IC503 LM1131CN
IC504 KA2221
IC601 MC78M12
IC602 KA2281
D620 - 623 1N4002 X 4
FR601 12(F)
L601
FL501
FL502
Q501
Q502
Q505
Q506
Q507
Q508
Q513 KTC-1923-Y
Q514 KTC-1923Y
Q515 2SC1815GR
Q516 2SC1815GR
Q518 KTA950Y
Q520 2SA1015GR
Q525 KTC2120Y
Q526 KTA1015-GR
Q527 KTA950-Y
Q539 KTC2120-Y
Q540 KTA-1015GR
Q537 DTC114YA
Q538 DTC114YA
NOR 3.0V
Cr 5.0V
Me 8.0V
0.1V NOR -0.2V
0.2V Cr -0.7V
0.3V ME -1.6V
P1 0V
P1 0.7V
P.2 0V
N.1 0V
N2 0V
PLAY. REC 0V
P. R 0V
2.8 V
1.2 V
12 V
Cr 0.7V
ME 0.7V
HI-D 0V
Cr 10.5V
ME 10.5V
ME 9.9V
Cr 9.9V
DUBBING SW
HI SPEED SW
DOLBY NR
S502
S503
S504
S505 OFF ON
LCH INPUT RCH
LCH OUTPUT RCH
REMOTE PAUSE
MJ601
MJ602
MJ603
MJ604
MJ-605
MJ500
P/T
T.F
WIRE JOINTER
TAPE1 CrSW
TAPE Drec.SW
TAPE2 Cr Me SW SW
M
LD613
LD615 D.R
LD616 D.F
LD614 R.P
VR501a 20KA
VR501b 20KA
TP501
TP502
TP503
TP504
TP505
TP 506

KTC1815Y : C

IS2473 : UNNOTED DIODE

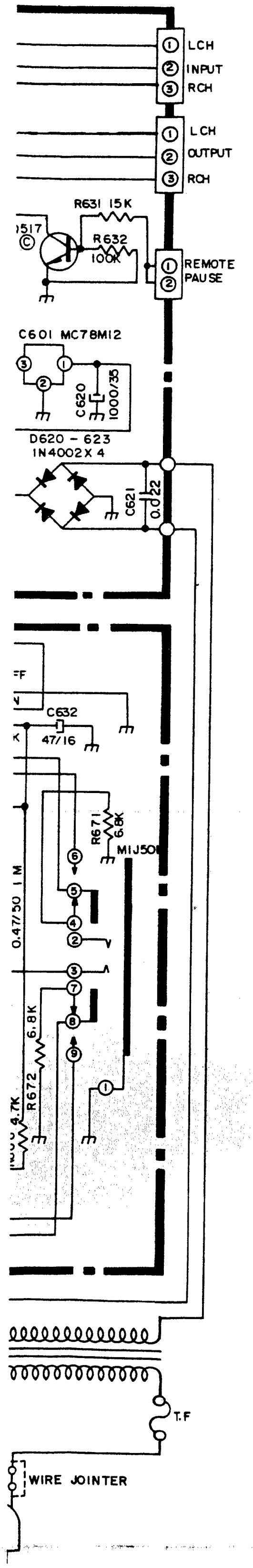
IC 503 (V)	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
DOLBY	0	3.5	7.5	7.3	3.7	3.7	3.7	3.7	3.7	3.7
OFF	3.7	3.7	3.7	3.7	3.7	3.7	7.5	7.7	3.6	8.1
DOLBY	0	4.1	4.2	4.1	4.1	4.1	4.2	4.2	4.2	4.3
ON	4.2	4.2	4.2	4.2	4.1	4.2	4.2	4.2	4.1	9.3

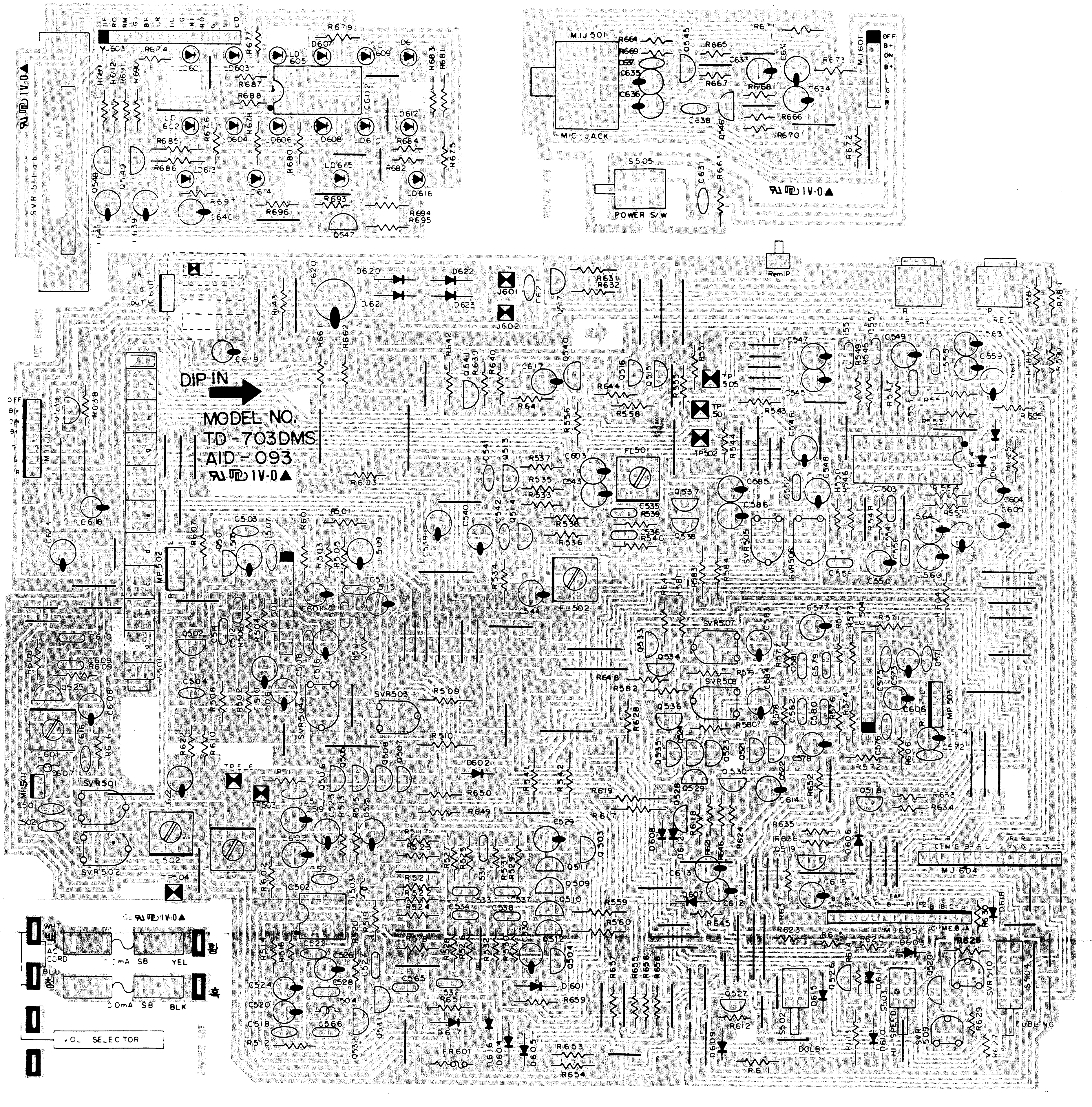
	1	2	3	4	5	6	7	8
IC501 . 504(V)	1.3	0.8	2.7	8.9	0	2.7	0.8	1.3
IC502 (V)	5.0	5.0	5.0	0	5.0	5.0	5.0	10.0

POWER SUPPLY CONDITION

SAFETY STANDARD	AC LINE	AC CORD	FUSE	P/T NO.	WIRE JOINTER
K. S	110/220V 60Hz	CP2 4.8 ø	100mA SBX2	A41-055 -BB-K	
V D E	220V 50Hz	CP2 4 ø		A41-055 -X-V	AC BLOCK (2P)
CSA / UL	120V 60Hz	SPT-2		A41-055 -C-U	CLOSED END CONNECTOR 2-SD
S A A	240V 50Hz	AP2		A41-055 -Z-U	AC BLOCK (2P)
B S	240V 50Hz	BS2		A41-055 -Z-U	AC BLOCK (2P)

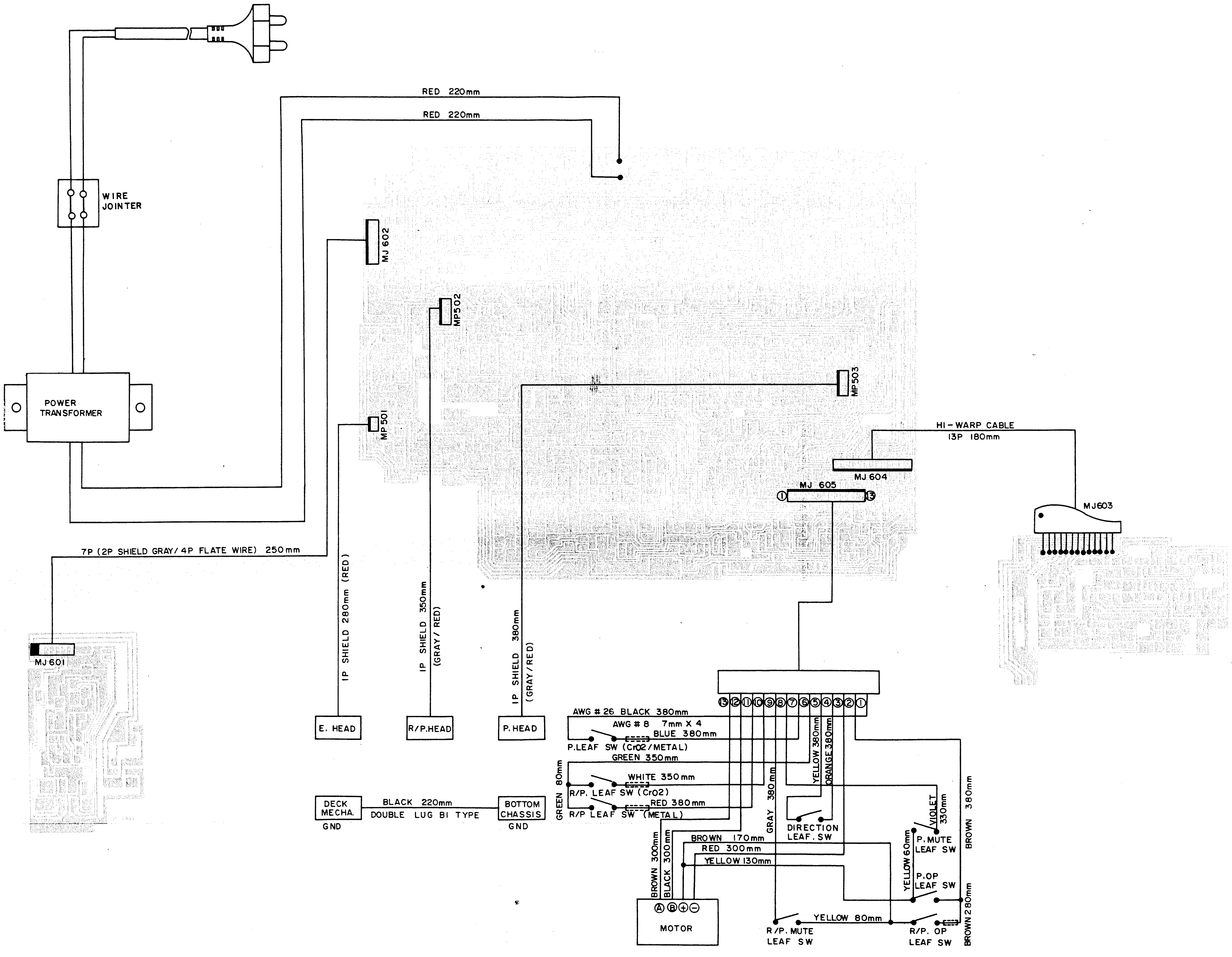
PCB LAYOUT


LCH
INPUT
RCH
LCH
OUTPUT
RCH
R631 15K
R632 100K
REMOTE
PAUSE
C601 MC78M12
C620 1000/35
D620 - 623
1N4002X4
C632
47/16
R671 6.8K
MIJ501
0.47/50
6.8K
R672 4.7K
T.F
WIRE JOINTER


MIJ501
MIC JACK
S505
POWER S/W
MJ601
DIP IN
MODEL NO.
TD-703DMS
AID-093
1V-0▲
FL501
FL502
IC503
IC504
IC502
MP502
MP503
MJ604
MJ605
SVR501
SVR502
SVR503
SVR504
SVR505
SVR507
SVR508
SVR509
SVR510
TP501
TP502
TP503
TP504
TP505
J601
J602
L501
L502
S502
S503
S504
DOLBY
HI SPEED
DUBBING
VOL SELECTOR
WHT
BLU
YEL
BLK
FR601

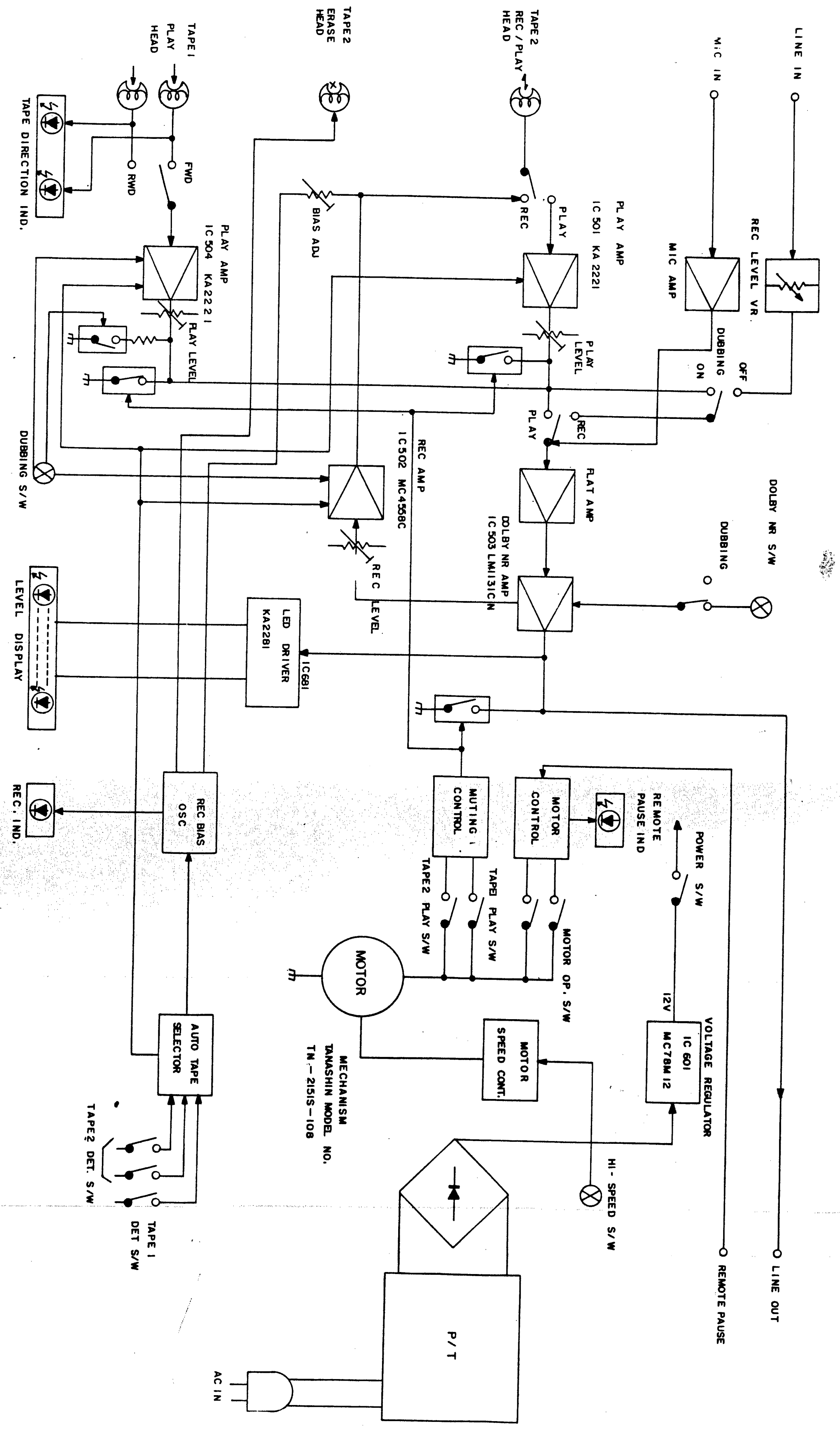
MODEL NO.**TD-703DMS**

WIRING DIAGRAM


RED 220mm
RED 220mm
WIRE JOINTER
POWER TRANSFORMER
MJ 602
MP502
MP503
MP501
HI-WARP CABLE
13P 180mm
MJ 604
MJ 605
①
⑬
MJ603
7P (2P SHIELD GRAY/4P FLATE WIRE) 250mm
MJ 601
IP SHIELD 280mm (RED)
IP SHIELD 350mm (GRAY/RED)
IP SHIELD 380mm (GRAY/RED)
E. HEAD
R/P.HEAD
P. HEAD
⑬⑫⑪⑩⑨⑧⑦⑥⑤④③②①
AWG # 26 BLACK 380mm
AWG # 8 7mm X 4
BLUE 380mm
P.LEAF SW (CrO2/METAL)
GREEN 350mm
WHITE 350mm
GREEN 80mm
R/P. LEAF SW (CrO2)
RED 380mm
R/P LEAF SW (METAL)
YELLOW 380mm
ORANGE 380mm
GRAY 380mm
DIRECTION LEAF. SW
VIOLET 330mm
P. MUTE LEAF SW
BROWN 380mm
YELLOW 60mm
P.OP LEAF SW
BROWN 280mm
DECK MECHA.
GND
BLACK 220mm
DOUBLE LUG BI TYPE
BOTTOM CHASSIS
GND
BROWN 300mm
BLACK 300mm
BROWN 170mm
RED 300mm
YELLOW 130mm
Ⓐ Ⓑ ⊕ ⊖
MOTOR
YELLOW 80mm
R/P. MUTE LEAF SW
R/P. OP LEAF SW

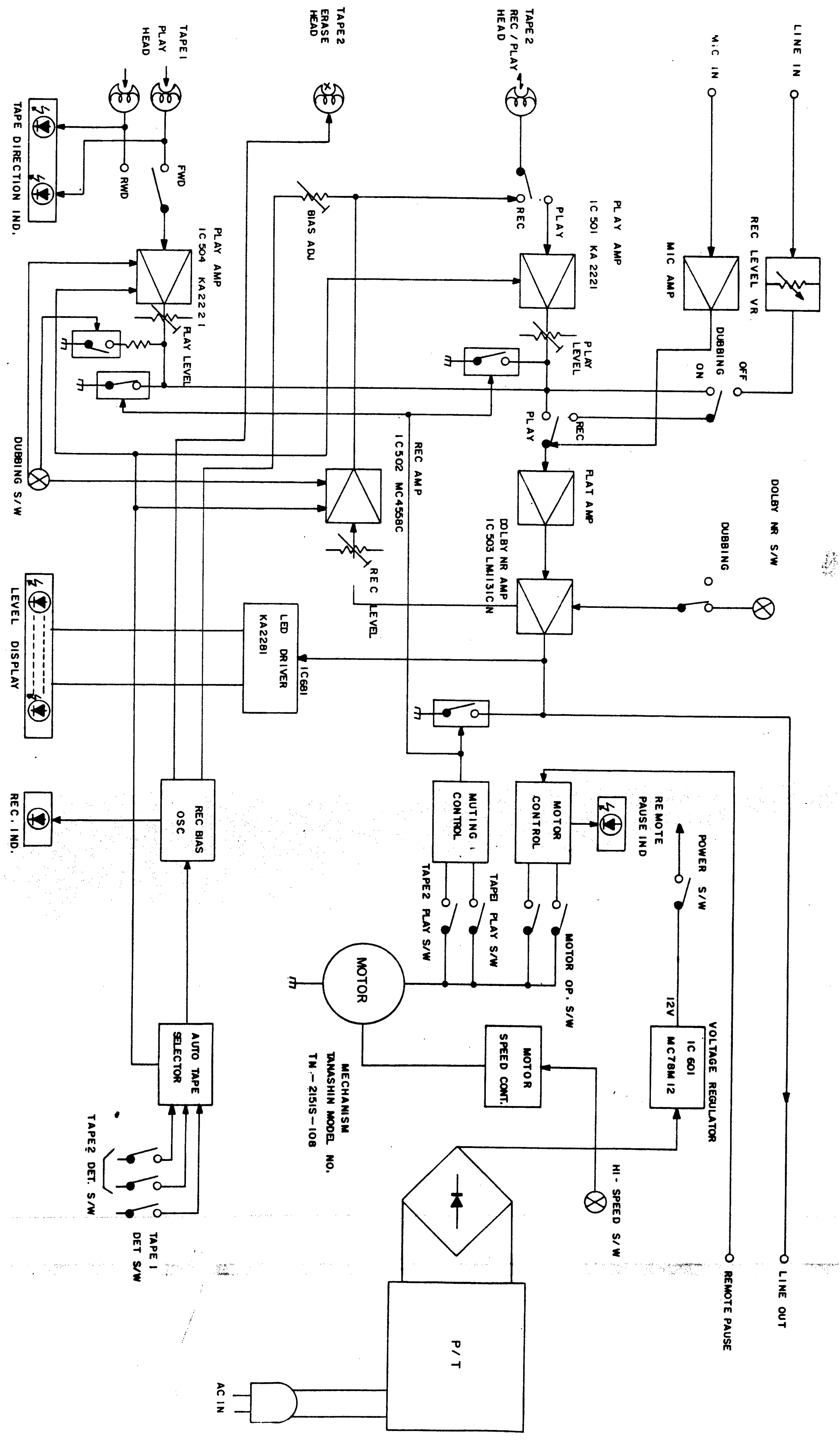
MODEL NO. **TD-703DMS**

BLOCK DIAGRAM


TAPE1 PLAY HEAD
TAPE2 ERASE HEAD
TAPE 2 REC / PLAY HEAD
MIC IN
LINE IN
TAPE DIRECTION IND.
FWD
RWD
BIAS ADJ
REC
PLAY
PLAY AMP IC 501 KA 2221
REC LEVEL VR.
MIC AMP
PLAY AMP IC 504 KA2221
PLAY LEVEL
PLAY LEVEL
DUBBING ON
OFF
PLAY
REC
FLAT AMP
DOLBY NR S/W
DUBBING
DOLBY NR AMP IC 503 LM1131CN
REC AMP IC502 MC4558C
REC LEVEL
DUBBING S/W
LEVEL DISPLAY
LED DRIVER KA2281
IC681
REC BIAS OSC
REC. IND.
MUTING CONTROL
MOTOR CONTROL
REMOTE PAUSE IND
POWER S/W
TAPE2 PLAY S/W
TAPE1 PLAY S/W
MOTOR OP. S/W
MOTOR
VOLTAGE REGULATOR IC 601 MC78M12
12V
MOTOR SPEED CONT.
MECHANISM TANASHIN MODEL NO. TN-2151S-108
AUTO TAPE SELECTOR
TAPE2 DET. S/W
TAPE1 DET S/W
HI-SPEED S/W
LINE OUT
REMOTE PAUSE
P/T
AC IN

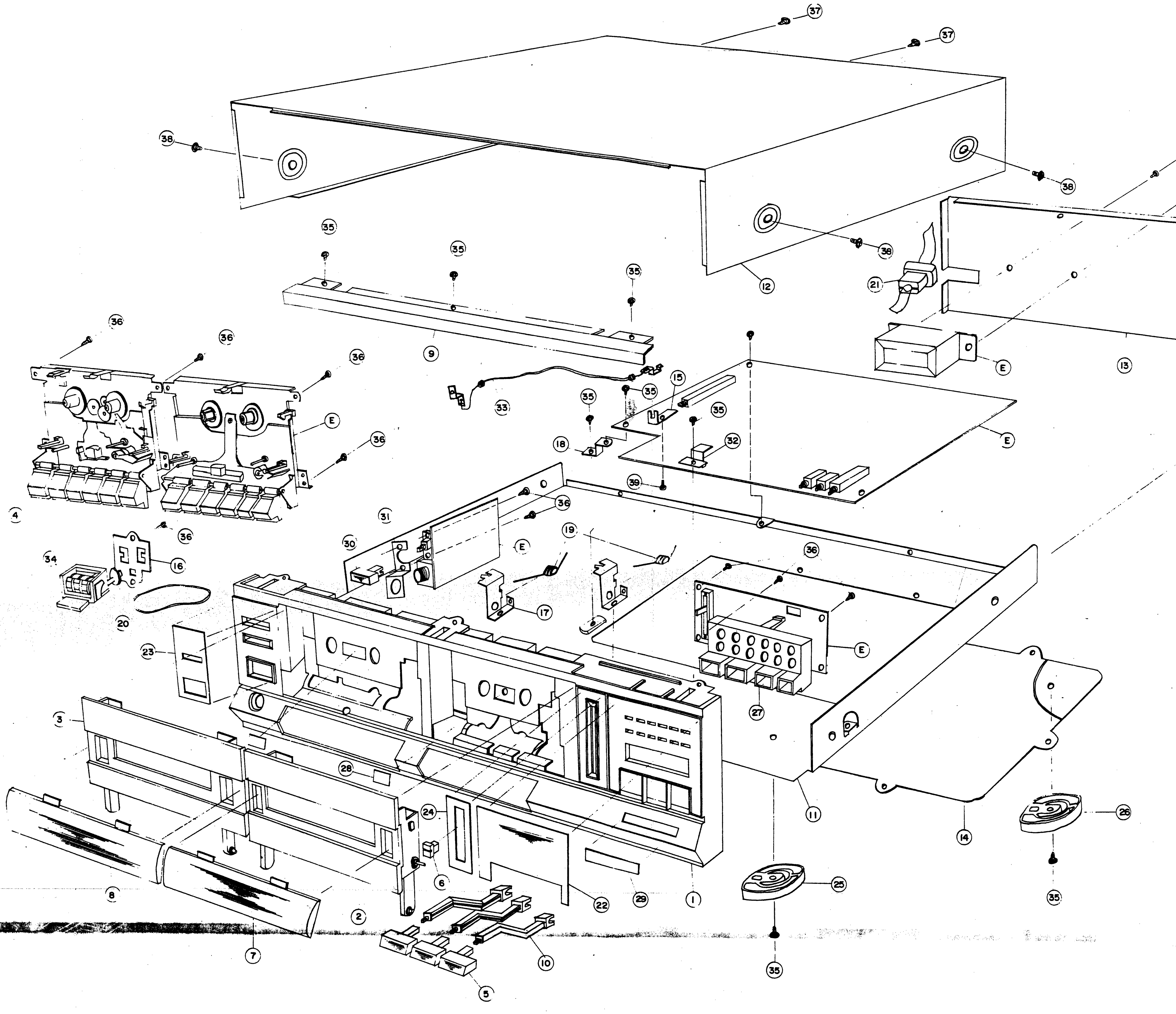
MODEL NO. **TD-703DMS**

BLOCK DIAGRAM


TAPE1 PLAY HEAD
TAPE2 ERASE HEAD
TAPE2 REC/PLAY HEAD
MIC IN
LINE IN
TAPE DIRECTION IND.
FWD
RWD
BIAS ADJ
REC
PLAY
PLAY AMP IC501 KA2221
REC LEVEL VR
MIC AMP
PLAY AMP IC504 KA2221
PLAY LEVEL
PLAY LEVEL
DUBBING ON
OFF
PLAY
REC
FLAT AMP
REC AMP IC502 MC4558C
DUBBING S/W
DOLBY NR S/W
DUBBING
DOLBY NR AMP IC503 LM1131CN
REC LEVEL
LEVEL DISPLAY
LED DRIVER KA2281 IC681
REC. IND.
REC BIAS OSC
MUTING CONTROL
MOTOR CONTROL
REMOTE PAUSE IND
POWER S/W
TAPE2 PLAY S/W
TAPE1 PLAY S/W
MOTOR OP. S/W
MOTOR
VOLTAGE REGULATOR IC601 MC78M12
12V
MOTOR SPEED CONT.
MECHANISM TANASHIN MODEL NO. TN-21515-108
AUTO TAPE SELECTOR
TAPE2 DET. S/W
TAPE1 DET S/W
HI-SPEED S/W
REMOTE PAUSE
LINE OUT
P/T
AC IN

MODEL NO.**TD-703DMS**

EXPLODED VIEW


37
37
38
37
37
38
38
37
12
21
13
35
35
35
9
36
36
36
E
33
15
35
35
35
18
32
E
E
36
4
39
31
36
30
E
19
36
34
16
17
20
23
E
27
3
28
24
6
11
14
26
8
2
22
29
1
25
35
7
10
5
35

NO	NAME	Q'TY	METERIAL	PART . NO.	
39	MACHINE SCREW		BH M2.6 X 4 Fe-Zy		
38	" "		BH T2T Ø4 X 8 Fe-ZB		
37	" "		BH T2T Ø3 X 8 Fe-ZB		
36	" "		BH T2T Ø3 X 10 Fe-Zy		
35	TAPPING SCREW		BH T2T Ø3 X 8 Fe-Zy		
34	COUNTER	1		T3SA-100-080-836	
33	REC SPRING ASS'Y	1		A3MC-0231	
32	BRKT-MNT-B	1	SECC	A4MC-0736	
31	BRKT-JACK	1	SECC	A4MC-0733	
30	KNOB-POWER	1	ABS	A4MF-0298	
29	DECO-NAME	1	PVC	A4MC-0564	
28	REFLECTOR	2	SILVER	A4MC-0291	
27	GUIDE-LED	1	PC	A4MG-0472	
26	FOOT	2	ABS	A4MG-0038-01	
25	FOOT	2	ABS	A4MG-0038-04	GOLD H/S
24	DECO-REC.LEVEL	1	PVC	A4MF-0527	
23	DECO-POWER	1	PVC	A4MF-0529	
22	DECO-FUNCTION	1	PVC	A4MF-0528	
21	CORD-BUSH	1	NYLON 6	A3MG-0028	
20	COUNTER-BELT	1	NWRT	A4MG-0475	
19	SPRING-EJECT	2	SUS 304	A4MC-0694	
18	BRKT-PCB	1	SECC	A4MC-0692	
17	BRKT-EJECT	2	SECC	A4MC-0691	-00
16	BRKT-COUNTER	1	SECC	A4MC-0693	
15	BRKT-WIRE-N	1	SECC	4PC-1754	
14	PLATE-BOTTOM	1	SECC	A3MC-0219	
13	CHASSIS-BACK	1	SECC	A2MC-0137	
12	COVER-TOP	1	SECC	A2MC-0138	
11	CHASSIS-BOTTOM	1	SECC	A1M-0095	
10	CONNECTOR-ROD	3	ABS	A4MC-0473	
9	FRONT-PANEL-UP	1	AL6063	A3MF-0136	
8	COVER-CST-A	1	AS	A4MF-0530	
7	COVER-CST-B	1	AS	A4MF-0531	
6	KNOB-LEVEL	1	ABS	A3MF-0183	
5	KNOB-FUNCTION	3	ABS	A4MF-0525	
4	KNOB-DECK	12	ABS	A4MF-0526	
3	HOLDER-CST-A	1	ABS	A2MF-0097	
2	HOLDER-CST-B	1	ABS	A2ME-0098	
1	FRONT PANEL	1	ABS	A1M-0094	

MODEL NO.TD-703DMS

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
IC	PC	1	LM1131CN	IC503
IC	PC	2	KA2221	IC501, 504
IC	PC	1	KA2281	IC602
IC	PC	1	MC4558C	IC502
IC	PC	1	MC73M12	IC601
LED	PC	10	SLR-54MC-5	LD601, 602, 603, LD604, 605, 606, LD607, 608, 615, LD616
LED	PC	1	SLR-54VC-5	LD613
LED	PC	5	SLR54DC-5	LD609, 610, 611, LD612, 614
DECK MECHANISM	PC	1	TN2151S-108	
SLIDE VR.	PC	1	20KA DOUBLE	SVR511a, b
SLIDE SW.	PC	1	9C2P, W/MUTE, T00920001	S501, a-i
PUSH SW.	PC	1	1KEY 2C2P, TR2112055	S505
PUSH SW.	PC	2	1KEY 2C2P, R2320602A	S502, 503
PUSH SW.	PC	1	1KEY, 4C2P, R2320569	S504
SEMI FIXED RESISTOR	PC	2	2.2KB	SVR509, 510
SEMI FIXED RESISTOR	PC	6	10KB	SVR503, 504, 505, SVR506, 507, 508
SEMI FIXED RESISTOR	PC	2	200KB	SVR501, 502
MIC JACK (METAL LESS)	PC	1	6.3ø, HLJ-4306-01-3010	
RCA JACK	PC	1	4P, AP4-0032A	
DOLBY FILTER COIL	PC	2	19KHZ, 184015	FL501, 502
BIAS OSC COIL	PC	1	85KHZ, 191011	L601
BIAS TRAP COIL	PC	2	85KHZ, 184014	L501, 502
PEAKING COIL	PC	2	10mH, MOLDING	L503, 504
PHONE CORD	PC	2	2P, RCA PULG DOUBLE L:0.6m	
AC CORD W/PLUG	PC	1	SAFETY STANDARD	
POWER TRANSFORMER	PC	1	SAFETY STANDARD	
WIRE JOINTER	PC	1	SAFETY STANDARD	
PCB	PC	1	AID-093	
TRANSISTOR	PC	2	KTA950Y	Q518, 527
TRANSISTOR	PC	4	KTA1015-GR	Q520, 526, 540, Q549
TRANSISTOR	PC	4	KTC1815-GR	Q515, 516, 547, Q548
TRANSISTOR	PC	30	KTC1815-Y	Q501, 502, 503, Q504, 505, 506, Q507, 508, 509, Q510, 511, 512, Q517, 519, 521, Q522, 523, 524, Q528, 529, 530, Q531, 532, 533, Q534, 535, 536, Q541, 545, 546
TRANSISTOR	PC	2	KTC1923-Y	Q513, 514
TRANSISTOR	PC	2	KTC2120-Y	Q525, 539
DIGITAL TRANSITOR	PC	2	DTC114YA	Q537, 538
RECTIFIER DIODE	PC	6	IN4002	D604, 615, 620, D621, 622, 623

MODEL NO.**TD-703DMS**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
SILICON DIODE	PC	16	IS2473	D601, 602, 603, D605, 606, 607, D608, 609, 610, D611, 612, 613, D614, 616, 617, D618
CAPACITOR CERAMIC	PC	1	50V, 0.047uF, Z, F	#C611
CAPACITOR CERAMIC	PC	2	50V, 1000pF, K, B	#C637, 638
CAPACITOR CERAMIC	PC	1	50V, 0.01uF, Z, F	#C616
CAPACITOR CERAMIC	PC	2	50V, 0.022uF, Z, F	#C621, 631
CAPACITOR CERAMIC	PC	4	50V, 100pF, J, SL	#C521, 522
CAPACITOR CERAMIC	PC	1	50V, 220pF, J, CH	#C501, 502, 517, #C518
CAPACITOR CERAMIC	PC	6	50V, 470pF, J, SL	#C507, 508, 541, #C542, 575, 576
CAPACITOR CERAMIC	PC	2	50V, 560pF, J, SL	#C571, 572
CAPACITOR CERAMIC	PC	2	50V, 820pF, J, SL	#C503, 504
CAPACITOR E/ALUMINUM	PC		35V, 1000uF, M-S, 16×25	#C509, 510, 577
CAPACITOR E/ALUMINUM	PC	6		#C578, 603, 605
CAPACITOR E/ALUMINUM	PC	6	16V, 220uF, M-T, 8×11.5	#C601, 604, 606, #C608, 618, 623
CAPACITOR E/ALUMINUM	PC	1	16V, 33uF, M-T, 5×11	#C641
CAPACITOR E/ALUMINUM	PC	2	16V, 47uF, M-T, 6.3×11	#C615, 632
CAPACITOR E/ALUMINUM	PC	23	25V, 10uF, M-T, 5×11	#C505, 506, 515, #C516, 525, 526, #C543, 544, 545, #C546, 547, 548, #C549, 550, 561, #C562, 573, 574, #C583, 584, 622, #C633, 634
CAPACITOR E/ALUMINUM	PC	1	25V, 100uF, M-T, 8×11.5	#C602
CAPACITOR E/ALUMINUM	PC	1	50V, 1.0uF, M-T, 5×11	#C619
CAPACITOR E/ALUMINUM	PC	8	50V, 4.7uF, M-T, 5×11	#C519, 520, 612, #C613, 614, 617, #C639, 640
CAPACITOR E/ALUMINUM	PC	4	50V, 0.1uF, M-T, 5×11	#C559, 560, 585, #C586
CAPACITOR E/ALUMINUM	PC	2	50V, 0.33uF, M-T, 5×11	#C563, 564
CAPACITOR E/ALUMINUM	PC	6	50V, 0.47uF, M-T, 5×11	#C523, 524, 529, #C530, 635, 636
CAPACITOR E/LOW LEAK	PC	2	50V, 1uF, M-T, 5×11	#C539, 540
CAPACITOR POLYNTYLEN	PC	1	125V, 2700pF, J-S, 7×10	#C607
CAPACITOR F/POLYESTR	PC	2	50V, 0.001uFm J-T, 5.3×12.5	#C535, 536
CAPACITOR F/POLYESTR	PC	4	50V, 0.010uF, J-T, 6.8×13	#C533, 534, 609, #C610
CAPACITOR F/POLYESTR	PC	2	50V, 0.012uF, J-T, 7.0×13	#C565, 566
CAPACITOR F/POLYESTR	PC	2	50V, 0.015uF, J-T, 7.1×13	#C537, 538
CAPACITOR F/POLYESTR	PC	4	50V, 0.018uF, J-T, 7.3×13	#C513, 514, 581, #C582
CAPACITOR F/POLYESTR	PC	2	50V, 0.0022uF, J-T, 5.5×12.5	#C557, 558
CAPACITOR F/POLYESTR	PC	4	50V, 0.027uF, J-T, 7.8×13	#C511, 512, 579, #C580
CAPACITOR F/POLYESTR	PC	2	50V, 0.033uF, J-T, 8.1×13	#C551, 552

MODEL NO.**TD-703DMS**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
CAPACITOR F/POLYESTR	PC	2	50V, 0.0039uF, J-T, 5.8×12.5	#C531, 532
CAPACITOR F/POLYESTR	PC	2	50V, 0.0047uF, J-T, 5.8×12.5	#C553, 554
CAPACITOR F/POLYESTR	PC	2	50V, 0.047uF, J-T, 8.9×13.5	#C555, 556
CAPACITOR F/POLYESTR	PC	2	50V, 0.0082uF, J-T, 6.5×12.5	#C527, 528
RESISTOR CARBON FILM	PC	2	1/5W, 100ohm, 5%	#R669, 670
RESISTOR CARBON FILM	PC	1	1/5W, 1Kohm, 5%	#R697
RESISTOR CARBON FILM	PC	1	1/5W, 10Kohm, 5%	#R614
RESISTOR CARBON FILM	PC	1	1/5W, 100Kohm, 5%	#R635
RESISTOR CARBON FILM	PC	2	1/5W, 1Mohm, 5%	#R667, 668
RESISTOR CARBON FILM	PC	5	1/5W, 2.2Kohm, 5%	#R612, 615, 620, #R623, 636
RESISTOR CARBON FILM	PC	1	1/5W, 22Kohm, 5%	#R664
RESISTOR CARBON FILM	PC	2	1/5W, 3.3Kohm, 5%	#R630, 633
RESISTOR CARBON FILM	PC	4	1/5W, 4.7Kohm, 5%	#R634, 645, 665, #R666
RESISTOR CARBON FILM	PC	2	1/5W, 47Kohm, 5%	#R687, 688
RESISTOR CARBON FILM	PC	2	1/5W, 560ohm, 5%	#R674, 677
RESISTOR CARBON FILM	PC	1	1/5W, 5.6Kohm, 5%	#R629
RESISTOR CARBON FILM	PC	2	1/5W, 680ohm, 5%	#R682, 684
RESISTOR CARBON FILM	PC	1	1/5W, 820ohm, 5%	#R693
RESISTOR CARBON FILM	PC	1	1/4W, 100ohm, 5%	#R604
RESISTOR CARBON FILM	PC	6	1/4W, 1Kohm, 5%	#R603, 616, 622, #R641, 694, 696
RESISTOR CARBON FILM	PC	14	1/4W, 10Kohm, 5%	#R509, 510, 513 #R514, 525, 526, #R581, 582, 613 #R643, 644, 689, #R690, 691
RESISTOR CARBON FILM	PC	9	1/4W, 100Kohm, 5%	#R507, 508, 543, #R544, 577, 578, #R632, 639, 692
RESISTOR CARBON FILM	PC	3	1/4W, 12Kohm, 5%	#R589, 590, 663
RESISTOR CARBON FILM	PC	5	1/4W, 120Kohm, 5%	#R503, 504, 573, #R574, 695
RESISTOR CARBON FILM	PC	1	1/4W, 150ohm, 5%	#R638
RESISTOR CARBON FILM	PC	7	1/4W, 15Kohm, 5%	#R511, 512, 605, #R607, 631, 661, #R662
RESISTOR CARBON FILM	PC	1	1/4W, 180ohm, 5%	#R655
RESISTOR CARBON FILM	PC	2	1/4W, 200Kohm, 5%	#R539, 540
RESISTOR CARBON FILM	PC	2	1/4W, 2.2Kohm, 5%	#R611, 617
RESISTOR CARBON FILM	PC	5	1/4W, 22Kohm, 5%	#R559, 560, 618, #R621, 646
RESISTOR CARBON FILM	PC	7	1/4W, 2.7Kohm, 5%	#R505, 506, 555, #R556, 579, 580, #R626
RESISTOR CARBON FILM	PC	2	1/4W, 27Kohm, 5%	#R557, 558
RESISTOR CARBON FILM	PC	2	1/4W, 270Kohm, 5%	#R553, 554
RESISTOR CARBON FILM	PC	1	1/4W, 2.2ohm, 5%	#R608
RESISTOR CARBON FILM	PC	3	1/4W, 300ohm, 5%	#R537, 538, 656
RESISTOR CARBON FILM	PC	2	1/4W, 3Kohm, 5%	#R575, 576
RESISTOR CARBON FILM	PC	1	1/4W, 33ohm, 5%	#R686

MODEL NO.**TD-703DMS**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	LOCATION
RESISTOR CARBON FILM	PC	2	1/4W, 330ohm, 5%	#R602, 654
RESISTOR CARBON FILM	PC	10	1/4W, 3.3Kohm, 5%	#R517, 518, 535, #R536, 541, 542, #R549, 550, 624, #R642
RESISTOR CARBON FILM	PC	7	1/4W, 33Kohm, 5%	#R521, 522, 523, #R524, 587, 588, #R610
RESISTOR CARBON FILM	PC	1	1/4W, 39Kohm, 5%	#R627
RESISTOR CARBON FILM	PC	2	1/4W, 390Kohm, 5%	#R533, 534
RESISTOR CARBON FILM	PC	1	1/4W, 3.3ohm, 5%	#R637
RESISTOR CARBON FILM	PC	5	1/4W, 470ohm, 5%	#R519, 520, 653, #R675, 676
RESISTOR CARBON FILM	PC	13	1/4W, 4.7Kohm, 5%	#R531, 532, 619, #R625, 628, 647, #R648, 649, 650, #R651, 652, 659, #R673
RESISTOR CARBON FILM	PC	4	1/4W, 47Kohm, 5%	#R547, 548, 583, #R584
RESISTOR CARBON FILM	PC	5	1/4W, 56ohm, 5%	#R501, 502, 571, #R572, 685
RESISTOR CARBON FILM	PC	5	1/4W, 560ohm, 5%	#R601, 606, 678, #R679, 680
RESISTOR CARBON FILM	PC	3	1/4W, 5.6Kohm, 5%	#R529, 530, 609
RESISTOR CARBON FILM	PC	2	1/4W, 5.1ohm, 5%	#R657, 658
RESISTOR CARBON FILM	PC	2	1/4W, 6.2Kohm, 5%	#R545, 546
RESISTOR CARBON FILM	PC	2	1/4W, 680ohm, 5%	#R681, 683
RESISTOR CARBON FILM	PC	4	1/4w, 6.8Kohm, 5%	#R527, 528, 671, #R672
RESISTOR CARBON FILM	PC	2	1/4W, 68Kohm, 5%	#R551, 552
RESISTOR CARBON FILM	PC	2	1/4W, 8.2Kohm, 5%	#R515, 516
RESISTOR CARBON FILM	PC	1	1/4W, 82Kohm, 5%	#R640
RESISTOR FUSIBLE	PC	1	1/4W, 12ohm, 5%	#FR601
RESISTOR JUMPER WIRE	M	7,3800	60mm-TX123	#/123

MODEL NO.**TD-703DMS**

MECHANICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	REMARKS
PANEL FRONT	PC	1		
HOLDER CST A	PC	1		
HOLDER CST B	PC	1		
KNOB DECK	PC	12		
KNOB FUNCTION	PC	3		
KNOB LEVEL	PC	1		
KNOB POWER	PC	1		
CONNECTOR ROD	PC	3		
GUIDE LED	PC	1		
COVER CST A	PC	1		
COVER CST B	PC	1		
CHASSIS BOTTOM	PC	1		
COVER TOP	PC	1		
CHASSIS BACK	PC	1		
PLATE BOTTOM	PC	1		
BRKT. WIRE M	PC	1		
BRKT. WIRE N	PC	1		
BRKT. COUNTER	PC	1		
BRKT. EJECT	PC	2		
BRKT. JACK	PC	1		
BRKT. PCB	PC	1		
BRKT. DECK	PC	1		
HEAT SINK TR	PC	1		
SPRING CASSETTE	PC	4		
SPRING EJECT	PC	2		
DAMPER SHAFT R	PC	1		
DAMPER SHAFT L	PC	1		
DAMPER	PC	2		
COUNTER BELT	PC	1		
CORD BUSH	PC	1		
REFLECTOR	PC	2		
DECO. FUNCTION	PC	1		
DECO. POWER	PC	1		
DECO. REC LEVEL	PC	1		
DECO. NAME	PC	1		
SPRING REC ASS'Y	PC	1		
FRONT PANEL UP	PC	1		
CABLE TIE	PC	10		
FOOT	PC	4		
FOOT CUSHION	PC	4		
BRKT. MNT B	PC	1		
CUSHION PCB	PC	1		
FILTER LED	PC	1		
CUSHION R	PC	1		
CUSHION L	PC	1		

MODEL NO.**TD-703DMS**

MECHANICAL PARTS

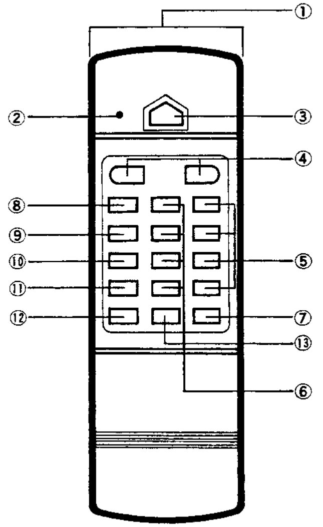
PARTS NAME	UNIT	Q'TY	REMARKS	
WIRE CLAMP	PC	1		
GIFT BOX	PC	1		
POLY BAS (S)	PC	1		
PCB	PC	(1)		
SILICA GEL	PC	1		
WARRENTY CARD	PC	1		
COUNTER	PC	1		
TAPPING SCREW	PC	20	BH, T2T, ø3×8, Fe-Zy	
TAPPING SCREW	PC	19	BH, T2T, ø3×10, Fe-Zy	
TAPPING SCREW	PC	2	FH, T2T, ø3×6, Fe-Zy	
TAPPING SCREW	PC	13	BH, T2T, ø3×8, Fe-ZB	
TAPPING SCREW	PC	4	BH, T3T, ø4×8, Fe-ZB	
MACHINE SCREW	PC	1	BH, M2.6×4 Fe-Zy	
MACHINE SCREW	PC	1	BH, M3×8, Fe-Zy	
MACHINE SCREW	PC	2	BH, M3×8, Fe-ZB	

MODEL NO.

TRM-718BR

REMOTE CONTROL BOX

REMOTE CONTROL



PANEL FEATURES

1. **Remote Transmitter**
   This is a equipment to transmit remote signal.
   It Cannot control the other sets except AMP TA-705BR.
2. **Remote Indicator**
   This LED indicates remote control condition when transmitting remote signal.
3. **Power Botton**
   Each time you depressed the botton repeatedly is repeated power POWER ON, STAND BY condition of AMP TA-705BR.
4. **Volume Control**
   This button controls volume of AMP TA-705BR.
   Hold the UP or DOWN botton until desired volume level is obtained.
5. **Tuner Function**
   BAND: Use to select BAND function of the TUNER TT-702DP.

   Depress this botton when selecting tuner funcition of the AMP TA-705BR.

   UP: Use to increase tuned frequcncy of the TUNER TT-702DP.

   DOWN: Use to decrease tuned frequency of the TUNER TT-702DP.
   MEMORY, SCAN/STOP: Use to start memory scanning, and to stop the scanning, press it again of the TUNER TT-702DP.

   Depress the BAND botton second times (Three times: In case of three BAND) for selecting the band to have been heard just ago of the tuner from the other sources.

6. **CDP Function**
   PLAY/PAUSE: Use to select PLAY/PAUSE function of the CDP.

   Depress this botton when selecting CDP function of the AMP TA-705BR.

   STOP : Use to select STOP function of the CDP.
   SKIP+ : Use to select SKIP+ function of the CDP.
   SKIP− : Use to select SKIP− function of the CDP.

   Depress the PLAY/PAUSE botton second times for selecting the music to have been heard just ago of the CDP from the other sources.

7. **Mute Botton**
   When this botton is pushed to mute condition, signal level is downed.
   Then mute LED of the AMP TA-705BR lights up.

8. **Start Botton**
   When this botton is pushed, turntable TP-702BR become start condition.

   Depress this botton when hearing the record player TP-702BR.

9. **Stop Botton**
   When this botton is pushed, turntable TP-702BR become STOP condition.

10. **Tape Monitor Botton**
    Each time you depressed the botton repeatedly is repeated TAPE, SOURCE function of AMP TA-705BR.
    TAPE : For a TAPE DECK TD-703DMS.
    SOURCE: For a SOURCE (PHONO, TUNER, CDP, DAT, VIDEO).

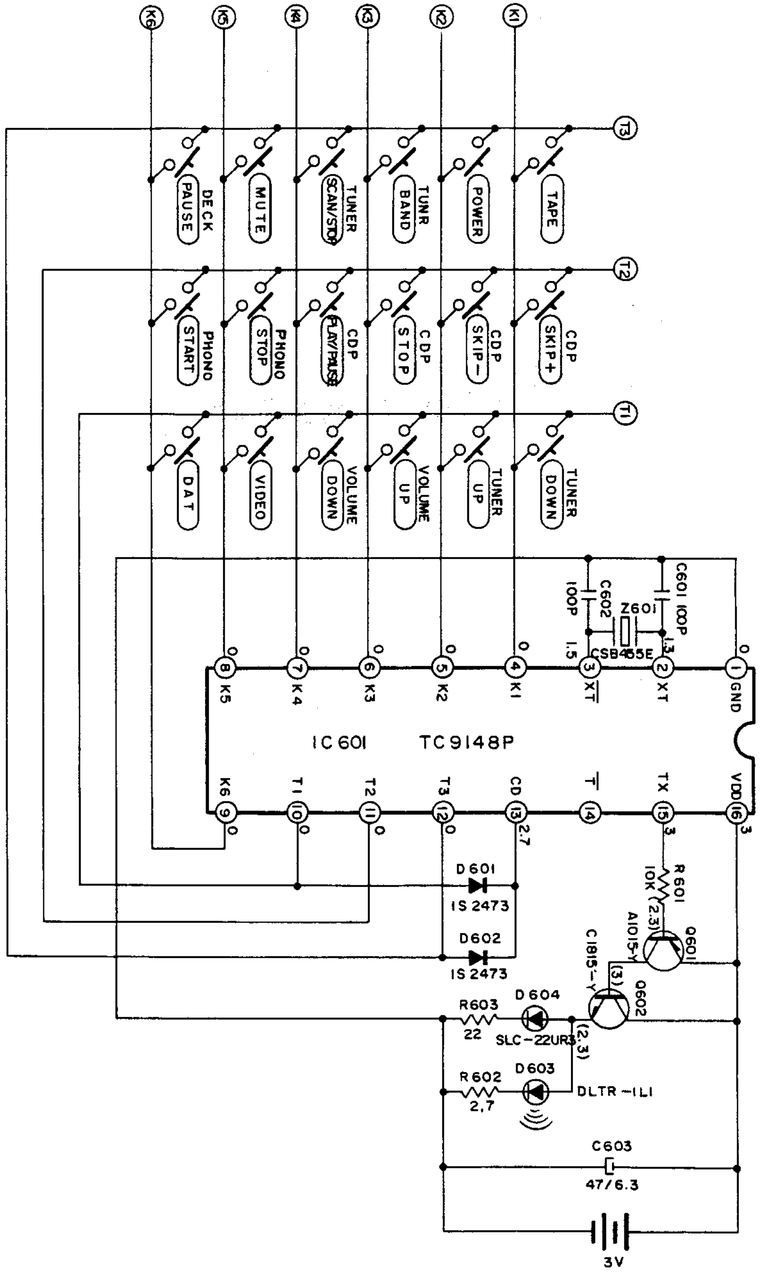
11. **Pause Botton**
    Each time you depressed the botton repeatedly is repeated PAUSE, PLAY/RECORDING condition of DECK TD-703DMS.

12. **VIDEO FUNCTION BOTTON**
    Depress this botton when selecting VIDEO function of the AMP TA-705BR.

13. **DAT FUNCTION BOTTON**
    Depress this botton when selecting DAT function of AMP TA-705BR.

MODEL NO.**TRM-718BR**

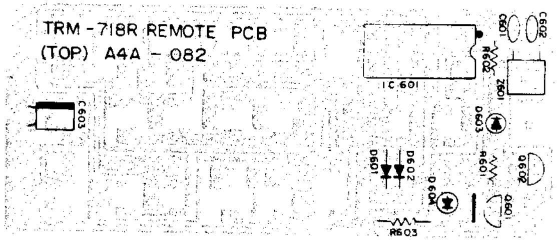
SCHEMATIC DIAGRAM


K6
K5
K4
K3
K2
K1
T3
T2
T1
DECK PAUSE
MUTE
TUNER SCAN/STOP
TUNR BAND
POWER
TAPE
PHONO START
PHONO STOP
CDP PLAY/PAUSE
CDP STOP
CDP SKIP−
CDP SKIP+
DAT
VIDEO
VOLUME DOWN
VOLUME UP
TUNER UP
TUNER DOWN
C602 100P
C601 100P
Z601
CSB455E
1.5
1.3
IC601 TC9148P
K5
K4
K3
K2
K1
XT
XT
GND
K6
T1
T2
T3
CD
T
TX
VDD
2.7
3
D601 1S 2473
D602 1S 2473
R601 10K
(2.3)
Q601 A1015-Y
Q602 C1815-Y
(3)
R603 22
D604 SLC-22UR3
(2.3)
R602 2,7
D603 DLTR-1L1
C603 47/6.3
3V

MODEL NO. **TRM-718BR**

PCB LAYOUT

REMOTE PCB
(TOP) A4A-082


TRM - 718R REMOTE PCB
(TOP) A4A - 082
IC601
C601
C602
R602
Z601
C603
D603
D601
D602
R601
Q602
D604
Q601
R603

MODEL NO. **TRM-718BR**

ELECTRICAL PARTS

PARTS NAME	UNIT	Q'TY	DESCRIPTION	REMARKS
IC	PC	1	TC-9148P	IC601
TANSISTOR	PC	1	KTC1815-Y	Q602
TRANSISTOR	PC	1	KTA1015-Y	Q601
LED	PC	1	2ø, SLC-22UR3	D604
LED	PC	1	5ø DLR-ILI	D603
CERAMIC RESONATOR	PC	1	CSB455E	Z601
SILICON DIODE	PC	2	IS2473	D601, 602
REMOTE PCB	PC	1	A4A-082	
CAPACITOR CERAMIC	PC	2	50V, 100pF, K B	#C601, 602
CAPACITOR E/ALUMINUM	PC	1	6.3V, 47uF, M-S, 5×7	#C603
RESISTOR CARBON FILM	PC	1	1/5W, 10Kohm, 5%	#R601
RESISTOR CARBON FILM	PC	1	1/4W, 22Kohm, 5%	#R603
RESISTOR CARBON FILM	PC	1	1/4W, 2.7ohm, 5%	#R602
RESISTOR JUMPER WIRE	PC	1	5 mm-M	

MODEL NO. **TRM-718BR**

MECHANICAL PARTS

PARTS NEME	UNIT	Q'TY	DESCRIPTION	REMAKRK
COVER TOP	PC	1		
COVER BOTTOM	PC	1		
COVER BATTERY	PC	1		
WINDOW	PC	1		
KNOB FUNCTION 18	PC	1		
PLATE FUNCTION	PC	1		
BATTERY SPRING	PC	1		
BATTERY SPRING (+)	PC	2		
POLY BAG	PC	1		
GIFT BOX	PC	1		